Section Six

Trustees, Administration, Faculty
OFFICERS

David L. Lee, Chair
Ronald K. Linde, Vice Chair

Thomas F. Rosenbaum, President
David A. Tirrell, Provost

Dexter A. Bailey, Jr.
Vice President for Advancement and Alumni Relations
Acting Secretary, Board of Trustees

Matthew Brewer
Controller

Kevin M. Gilmartin
Vice President for Student Affairs

Diana Jergovic
Vice President, Strategy Implementation

Jennifer T. Lum
General Counsel

Sharon E. Patterson
Treasurer

Scott H. Richland
Chief Investment Officer

Margo Steurbaut
Vice President of Administration and Chief Financial Officer

Michael M. Watkins
Vice President and Director, Jet Propulsion Laboratory

Rebecka Belldegrun (2016)
President and Chief Executive Officer
Bellco Capital, LLC

Sabeer Bhatia (2016)
Chief Executive Officer and Co-Founder
Sabse Technologies, Inc.

Brigitte M. Bren (2009)
President and Chief Executive Officer
International Strategic Planning

Janet C. Campagna (2017)
Chair
QS Investors

David E. Chavez (2017)
Los Alamos National Laboratory

John S. Chen (2008)
Executive Chairman of the Board and Chief Executive Officer
BlackBerry

Wenchi Chen (2012)
President and Chief Executive Officer
VIA Technologies Inc.

Robert B. Chess (2006)
Chairman
Nektar Therapeutics

David T. Dreier (2013)
Chairman
Annenberg-Dreier Commission

Lounette M. Dyer (1998)
Entrepreneur

Joshua S. Friedman (2011)
Co-Founder, Co-Chairman and Co-Chief Executive Officer
Canyon Partners, LLC

William T. Gross (1994)
Founder and Chief Executive Officer
Idealab

Narendra K. Gupta (2010)
Managing Director
Nexus Venture Partners

David D. Ho (1997)
Scientific Director
Aaron Diamond AIDS Research Center
Clyde and Helen Wu Professor of Medicine
Columbia University Vagelos College of Physicians and Surgeons

Ann Stimmmer Johnson (2016)
Chief Executive Officer and Founder
Interana, Inc.

G. Bradford Jones (2014)
Founding Partner
Redpoint Ventures

BOARD OF TRUSTEES

TRUSTEES
(with date of first election)

Spencer Abraham (2016)
Chairman and Chief Executive Officer
The Abraham Group LLC

William H. Ahmanson (2017)
President
The Ahmanson Foundation

Sean Bailey (2015)
President
Walt Disney Studios Motion Picture Production

G. Bradford Jones (2014)
Founding Partner
Redpoint Ventures

Board of Trustees
Trustees, Administration, Faculty

Peter D. Kaufman (2008)
Chairman and Chief Executive Officer
Glenair, Inc.

Louise Kirkbride (1995)
Entrepreneur

Walter G. Kortschak (2012)
Senior Advisor and Former
Managing Partner
Summit Partners, L.P.

Jon B. Kutler (2005)
Chairman and Chief Executive Officer
Admiralty Partners, Inc.

Taylor W. Lawrence (2017)

David L. Lee (2000)
Managing General Partner
Clarity Partners, L.P.

Li Lu (2018)
Founder and Chairman
Himalaya Capital Management, LLC

Alexander Lidow (1998)
Chief Executive Officer
EPC Corporation

Michelle J. Mathews-Spradlin (2016)

Deborah D. McWhinney (2007)
Former Chief Executive Officer
Citi Enterprise Payments
Citi Bank

Alexander R. Mehran, Sr. (2017)
Chairman of the Board
Sunset Development Company

Kenneth G. Moore (2014)
Chief Program Officer Bay Area
Chief Administrative Officer
Trustee
Gordon and Betty Moore Foundation

Philip M. Neches (1995)
Venture Partner
Entrepreneurs Roundtable Accelerator
New York City

Pedro J. Pizarro (2009)
President and Chief Executive Officer
Edison International

David E. I. Pyott, CBE (2018)
Private Investor

Eduardo A. Repetto (2015)
Chief Investment Officer
Avantis Investors

Thomas F. Rosenbaum (2014)
President
Sonja and William Davidow
Presidential Chair
and Professor of Physics
California Institute of Technology

Richard H. Scheller (2014)
Chief Scientific Officer and
Head of Therapeutics
23andMe, Inc.

Timothy J. Sloan (2016)
Senior Advisor and Partner
Fortress Investments, LLC

Donald W. Tang (2005)
Founding Partner
Tang Media Partners

Kevin M. Tawee (2012)
Chairman
Asurion

David W. Thompson (2012)
President and Chief Executive Officer
(Retired)
Orbital ATK

Richmond A. Wolf (2018)
Partner
Capitol World Investors

SENIOR TRUSTEES
(with date of first election and date of election as Senior Trustee)

Managing Director
Coastview Capital

Senior Partner
Sentinel HS Group, LLC

Lynn A. Booth (2011)
The Otis Booth Foundation

Managing Director
Incubic Venture Capital

Peggy T. Cherng (2012, 2019)
Co-Chairman
Panda Restaurant Group

France Córdova (2020)
Former Director, National Science
Foundation
President Emerita, Purdue University

Founding Partner
Mohr Davidow Ventures

Trustees, Administration, Faculty
President Emeritus
California Institute of Technology

B. Kipling Hagopian (2012, 2013)
Managing Partner
Apple Oaks Partners LLC

Frederick J. Hameetman (2006, 2012)
Chairman
Cal-American

Maria D. Hummer-Tuttle (2012, 2016)
Chair Emerita
J. Paul Getty Trust

Professor, Lyndon B. Johnson
Centennial Chair in National Policy
The University of Texas at Austin


Kent Kresa (1994, 2010)
Chair Emeritus
Chairman Emeritus
Northrop Grumman Corporation

Independent Investor;
Chair, The Ronald and Maxine Linde
Foundation;
Founder/Former Chief Executive
Officer,
Envirodyne Industries, Inc.

A. Michael Lipper (2005, 2007)
President and Chief Executive Officer
Lipper Advisory Services

Shirley M. Malcom (1999, 2018)
Senior Advisor and Director of SEA
Change
American Association for the
Advancement of Science

Founder and Chief Executive Officer
Heritage Provider Network

Michael G. Mullen (2019)
President
MGM Consulting LLC

Executive Chairman
Ciena Corporation

Norton Family Office

Ronald L. Olson (1998, 2013)
Senior Partner
Munger, Tolles & Olson LLP

Stephen R. Onderdonk (1986, 2016)
President and Chief Executive Officer
(Retired)
Econolite Control Products, Inc.

Chairman and President
The Wonderful Company

Founder and Former Chief Executive
Officer
Trimble Navigation Ltd.

Lewis W. van Amerongen (2004, 2012)
LvA Enterprises, Inc.

Walter L. Weisman (1988, 2007)
Past Chairman and
Chief Executive Officer
American Medical International, Inc.

Nonprofit Consultant

Corporate Governance Consultant

LIFE MEMBERS
(with date of first election and date of
election as Life Member)

George L. Argyros (1992, 2008)
Chairman and Chief Executive Officer
Arnel and Affiliates

Senior Director of Bechtel Group, Inc.
Becthel Group, Inc.

Chairman of the Board
Irvine Company

Eli Broad (1993, 2007)
Founder
The Eli and Edythe Broad Foundation


Harry M. Conger (1985, 2006)
Chairman & Chief Executive Officer,
Emeritus
Homestake Mining Company

Camilla C. Frost (1977, 2007)
Trustee of the Chandler Trust
(Retired)

Chairman and Chief Executive Officer
(Retired)
Ionics, Incorporated

Stephen R. Onderdonk (1986, 2016)
President and Chief Executive Officer
(Retired)
Econolite Control Products, Inc.

Chairman and President
The Wonderful Company

Founder and Former Chief Executive
Officer
Trimble Navigation Ltd.

Lewis W. van Amerongen (2004, 2012)
LvA Enterprises, Inc.

Walter L. Weisman (1988, 2007)
Past Chairman and
Chief Executive Officer
American Medical International, Inc.

Nonprofit Consultant

Corporate Governance Consultant

LIFE MEMBERS
(with date of first election and date of
election as Life Member)

George L. Argyros (1992, 2008)
Chairman and Chief Executive Officer
Arnel and Affiliates

Senior Director of Bechtel Group, Inc.
Becthel Group, Inc.

Chairman of the Board
Irvine Company

Eli Broad (1993, 2007)
Founder
The Eli and Edythe Broad Foundation


Harry M. Conger (1985, 2006)
Chairman & Chief Executive Officer,
Emeritus
Homestake Mining Company

Camilla C. Frost (1977, 2007)
Trustee of the Chandler Trust
(Retired)

Chairman and Chief Executive Officer
(Retired)
Ionics, Incorporated
HONORARY LIFE MEMBER

Betty I. Moore (2009)
Co-Founder
Gordon and Betty Moore Foundation

STANDING COMMITTEES


Development Committee—W. H. Davidow, Chair; J. C. Campagna, Vice Chair; L. A. Booth, P. T. Chen, M. D. Hummer-Tuttle, R. T. Jenkins, P. D. * ex officio member

Trustees, Administration, Faculty
ADMINISTRATIVE OFFICERS

Steven Atlee
Deputy General Counsel

Dexter A. Bailey, Jr.
Vice President for Advancement and Alumni Relations
Acting Secretary, Board of Trustees

Kaushik Bhattacharya
Vice Provost

Geoffrey A. Blake
Chair of the Faculty

Shayna M. Chabner
Chief Communications Officer

Jin Chang
Chief Information Officer

James W. Cowell, Jr.
Associate Vice President for Facilities

Frederic Farina
Chief Innovation and Corporate Partnerships Officer

Kevin M. Gilmartin
Vice President for Student Affairs

Kenneth Hargreaves
Assistant Vice President, Strategy Implementation and External Relations Officer

Larry D. James
Deputy Director Jet Propulsion Laboratory

Diana Jergovic
Vice President, Strategy Implementation

Pamela D. Koyzis
Associate Vice President of Audit Services and Institute Compliance

Jennifer T. Lum
General Counsel

Lindsey E. Malcom-Piqueux
Chief Institutional Research Officer
Strategy Implementation

Julia M. McCallin
Associate Vice President for Human Resources

Sharon E. Patterson
Associate Vice President for Finance and Treasurer

Douglas C. Rees
Dean of Graduate Studies

Scott H. Richland
Chief Investment Officer

Carol J. Schuil
Executive Assistant to the President, and Assistant Secretary, Board of Trustees

Richard P. Seligman
Associate Vice President, Research Administration

Margo Steurbaut
Vice President of Administration and Chief Financial Officer

Michael M. Watkins
Vice President and Director, Jet Propulsion Laboratory

Cindy A. Weinstein
Vice Provost
Chief Diversity Officer

CHAIRS OF DIVISIONS

Dennis A. Dougherty
Chemistry and Chemical Engineering

John P. Grotzinger
Geological and Planetary Sciences

Fiona A. Harrison
Physics, Mathematics and Astronomy

Richard Murray
Biology and Biological Engineering

Guruswami Ravichandran
Engineering and Applied Science

Jean-Laurent Rosenthal
Humanities and Social Sciences
ADMINISTRATIVE COMMITTEES

Animal Care and Use [fills the role of Caltech’s Institutional Animal Care and Use Committee—IACUC]—(Reports to the Vice Provost for Research)—R. A. Andersen, Chair; M. Meister, Vice Chair; J. Brackman, J. Campbell (alternate), J. Gumer (alternate), L. C. Hsieh-Wilson, K. C. Lencioni*, C. Lois (alternate), D. J. Mayo*, L. E. Quenee*, J. Scapa*, C. W. Scislowicz* (alternate), R. P. Seligman* (alternate), P. Vaishampayan, Advisor: J. T. Lum (or her designee)


Biosafety [fills the role of Caltech’s Institutional Biosafety Committee—IBC] (Reports to the Provost)—J. D. Leadbetter, Chair; A. Aravin, S. Chatterjee, C. Cortese, F. Hanner, R. Ismagilov, K. Lencioni*, D. J. Mayo (alternate), L. Quenee*, J. Scapa* (alternate), C. Scislowicz*, R. Seligman*, P. Vaishampayan, Advisor: J. T. Lum (or her designee)

Committee on Classified Research and Publication Restrictions at JPL (Reports to the Provost)—D. I. Meiron, Chair; D. Gallagher, R. Murray, T. A. Prince, M. Simons, P. O. Wennberg, J. Zmuidzinas

Computing Advisory Committee (Reports to the Provost and the Vice President of Administration and Chief Financial Officer)—M. Spiropulu, Chair; K. Bhattacharya*, G. K. Chan, J. Chang*, T. Colonius, M. Hari†, V. R. Lambert†, E. O’Reilly§, S. E. Patterson*, Z. Ross, M. S. Shum, J. Zhang


Environmental Health and Safety (Reports to the President)—D. A. Tirrell, Chair; K. Bhattacharya, J. W. Cowell*, K. M. Gilmartin, P. D. Koyzis*, C. Scislowicz*, M. Steurbaut

Institute Academic Council (IACC)—David A. Tirrell, Chair; D. A. Dougherty, J. P. Grotzinger, F. Harrison, R. Murray, G. Ravichandran, T. F. Rosenbaum, J-L Rosenthal


Institute Art (Reports to the President)—T. Schneider, Chair, J-P Avouac, J. Buchwald, P. Collopy*, M. Elowitz, K. T. Faber, K. Hargreaves*, D. Kremers, M. Lewis, Z. Mo, P. Perona

President’s Diversity Council (Reports to the President through the Provost)—W. M. Clemons, Jr., Chair, A. Emami, J. P. Grotzinger, D. Hsieh, V. J. Orphan, R. Ravichandran, B. Stolz, C. Weinstein*, N. Wey-Gomez, B. Wold

Protection of Human Subjects [fills the role of Caltech’s Institutional Review Board—IRB] (Reports to the Vice Provost for Research)—R. Adolphs, Chair; R. A. Andersen, Vice Chair, J. Ensminger, M. Ewens, M. J. Gibson, J. Gumer, I. Hildebrandt, L. Quenee*, C. W. Scislowicz*, R. P. Seligman*, J. M. Tyszka*, P. Vaishampayan, C. Yang, Advisor: J. T. Lum (or her designee)

Radiation Safety (Reports to the Vice President of Administration and Chief Financial Officer)—D. S. Burnett, Chair; B. W. Filippone, Vice Chair; B. Fultz, H. Issaian*, A. Kumagai, C. Scislowicz*, S. Shan

SURF (Reports to the Provost)—R. Murray, Chair, G. Blake, M. Bronner, D. Crewell*, K. M. Gilmartin*, M. Gonzalez*, E. Martovcan, A. Ponce, M. B. Robbins*, C. Rypisi*, B. Stolz, T. Tisch*

* ex officio member
† representing graduate students
‡ representing undergraduate students
§ representing postdoctoral scholars
FACULTY OFFICERS AND COMMITTEES
2020–21

Officers
Chair: G. A. Blake, 2022
Vice Chair: D. C. Chan, 2022
Secretary: M. Effros, 2021

Faculty Board
H. A. Atwater, 2022
K. Batygin, 2022
C. Daraio, 2023
T. K. Dennison, 2021
M. H. Dickinson, 2021
J. M. Eiler, 2023
D. Gilmore, 2022
L. C. Hsieh-Wilson, 2023
J. A. Kornfield, 2021
M. Marcolli, 2023
C. Martin, 2023
M. Meister, 2022
S. Pellegrino, 2023
F. C. Porter, 2022
G. R. Rossman, 2022
E. Rothenberg, 2021
B. M. Stoltz, 2021
A. Wierman, 2021

Ex Officio:
D. A. Dougherty
K. M. Gilmartin
J. P. Grotzinger
F. A. Harrison
R. M. Murray
G. Ravichandran
D. C. Rees
T. F. Rosenbaum
J-L. Rosenthal
D. A. Tirrell

Steering
G. A. Blake, Chair, 2022
D. C. Chan, Vice Chair, 2022
M. Effros, Secretary, 2021
K. Bhattacharya*
T. K. Dennison, 2021
J. A. Kornfield, 2021
C. Martin, 2021
E. Rothenberg, 2021
D. A. Tirrell*
C. A. Weinstein*
A. Wierman, 2021

Academic Freedom and Tenure
H. A. Lester, Chair, 2021
K. Batygin, 2022
E. Mantovan, 2021
B. J. McKeon, 2021

*ex officio member

A. J. Minnich, 2022
M. L. Roukes, 2022

Academic Policies
C. S. Parker, Chair, 2021
M. Agranov, 2021
B. Hassibi, 2021

Athletics and Physical Education
T. K. Dennison, Chair, 2022
M. E. Brown, 2022
N. Chun*
J. Fuller, 2023
T. F. Miller, 2021
B. Mitchell*
D. Y. Tsao, 2021
K. M. Zuev, 2023

Convocations
W. C. Brown, Chair, 2023
K. M. Gilmartin*
L. C. Hsieh-Wilson, 2021
D. C. Rees*

Core Curriculum Steering
M. Okumura, Chair, 2021
M. E. Brown, 2023
F. M. Echenique, 2023
K. M. Gilmartin*
M. L. Hunt, 2021
N. R. Hutzler, 2021
C. Jurca, 2023
N. H. Katz, 2023
C. Salinas*
A. Wierman, 2021
K. G. Zinn, 2022

Curriculum
A. J. Weinstein, Chair, 2022
T. Agapie, 2021
K. M. Gilmartin*
D. I. Meiron, 2023
L. S. Pachter, 2023
E. M. Rains, 2022
C. Salinas*
A. F. Thompson, 2022

Committee on Exchange Programs and Study Abroad (CEPSA)
H. B. Newman, Chair, 2021
J. F. Adkins, 2021
T. Agapie, 2021
C. Daraio, 2023
M. D. Dykstra, 2021
I. Peter, 2023
S. R. Quartz, 2022
C. Salinas*
P. Schroeder, 2023
L. B. Stolper*

Financial Aid
F. Eberhardt, Chair, 2021
G. Blanquart, 2023

Trustees, Administration, Faculty
Foreign Students and Scholars
A. Hoelz, Chair, 2021
Y. Abu-Mostafa, 2021
C. Daraio, 2021
C. Frankenberg, 2022
D. Mawet, 2023
I. Smith*
Y. Xin 2023
M. Zernicka-Goetz, 2023

Freshman Admissions
J. R. Leadbetter, Chair, 2022
A. Blank, 2023
C. F. Camerer, 2022
X. Chen, 2023
N. Chun*
G. A. George, 2022
L. Hillenbrand, 2022
J. Kirschvink, 2022
N. Chun*

Graduate Studies
D. I. Meiron*, Chair
A. D. Ames*
L. Cai*
W. M. Clemons*
M. Effros*
K. T. Faber*
A. Faraon*
C. Frankenberg*
K. P. Giapis*
N. Gilmore (non-voting)
V. Gradinaru*
L. Hillenbrand*
N. Lapusta*
Y. Ni*
J. P. O’Doherty*
T. R. Palfrey*
R. B. Patterson*
D. Prober*
D. C. Rees*
P. Schroeder*
A. G. Siapas*
B. M. Stoltz*
A. F. Thompson*
T. G. Vidick*
L. Wang*
Y. Yue*

Health
H. A. Lester, Chair, 2022
J. L. Beauchamp, 2022
K. M. Gilmartin*
S. Golwala, 2021
J. L. Howes*
A. P. Ingersoll, 2022
C. Jurca, 2023
J. M. McCaffin*
B. Mitchell*
D. C. Rees*
J. Y. Tsai*

Institute Programs
J. M. Elser, 2023
D. A. Bailey*
B. Brophy*
J. Cvitanic, 2023
L. C. Hsieh-Wilson, 2022
A. J. Minnich, 2021
L. S. Pachter, 2022

Library
N. Wey-Gomez, Chair, 2022
C. E. Bucholz, 2022
B. Fultz, 2023
W. A. Goddard, 2022
B. A. Hay, 2023
H. B. Newman, 2021

Membership and Bylaws
D. C. Chan, Chair, 2022
M. Effros*
K. C. Border, 2022
R. C. Flagan, 2022
S. R. Kulkarni, 2023
B. P. Wernicke, 2021

Nominating
M. L. Hunt, Chair, 2021
T. K. Denison, 2022
M. Effros*
H. A. Knutson, 2021
E. S. Phinney, 2022
P. W. Sternberg, 2021
B. M. Stoltz, 2022

Patents and Relations with Industry
M. L. Roukes, Chair, 2021
J. O. Dabiri, 2023
A. Emami, 2023
M. Gutman, 2023
R. F. Ismagilov, 2021
B. M. Stoltz, 2022
C. Yang, 2022

Postdoctoral Scholars
K. Bhattacharya, Chair
J. F. Alicea
K. Batygin
G.K. Chan
P. F. Hopkins
A. Kechriss
J. P. O’Doherty
L. Pachter
A. Santana*
C. M. Umans
Student Life and Housing
A. Rangel, Chair, 2023
D. Asimaki, 2023
K. M. Gilmartin*
J. M. Jackson, 2023
T. N. Mannion (non-voting)
B. Mitchell*
R. B. Patterson, 2021
E. S. Phinney, 2022
D. C. Rees*

Undergraduate Academic Standards and Honors
W. C. Brown, Chair, 2022
X. Chen, 2021
R. C. Flagan, 2022
K. M. Gilmartin*
M. Guttman, 2021
J. M. Jackson, 2022
R. B. Patterson, 2021
S. Pellegrino, 2022
C. Salinas*
K. C. Schwab, 2022

Upperclass Admissions
D. Asimaki, Chair, 2022
B. W. Filippone, 2021
J. A. Jahner, 2022
B. J. McKeon, 2022
C. Salinas*
D. P. Weitekamp, 2022
Y. L. Yung, 2022

*ex officio member

Trustees, Administration, Faculty
STAFF OF INSTRUCTION AND RESEARCH

DIVISION OF BIOLOGY AND BIOLOGICAL ENGINEERING

Richard M. Murray
William K. Bowes Jr. Leadership Chair

Professors Emeriti

John N. Abelson, Ph.D.
George Beadle Professor of Biology

Charles J. Brokaw, Ph.D.
Biology

John J. Hopfield, Ph.D.
Roscoe G. Dickinson Professor of Chemistry and Biology

Masakazu Konishi, Ph.D.
Bing Professor of Behavioral Biology

Jean-Paul Revel, Ph.D.
Albert Billings Ruddock Professor of Biology

Melvin I. Simon, Ph.D.
Anne P. and Benjamin F. Biaggini Professor of Biological Sciences

James H. Strauss, Ph.D.
Ethel Wilson Bowles and Robert Bowles Professor of Biology

Professors

Ralph Adolphs, Ph.D.
Bren Professor of Psychology, Neuroscience, and Biology; Allen V. C. Davis and Lenabelle Davis Leadership Chair; Caltech Brain Imaging Center; Director, Caltech Brain Imaging Center

John M. Allman, Ph.D.
Frank P. Hixon Professor of Neurobiology

Richard A. Andersen, Ph.D.
James G. Boswell Professor of Neuroscience; T&C Brain-Machine Interface Leadership Chair; Director, T&C Brain-Machine Interface Center

David J. Anderson, Ph.D.¹
Seymour Benzer Professor of Biology; Tianqiao and Chrissy Chen Institute for Neuroscience Leadership Chair; Director, Tianqiao and Chrissy Chen Institute for Neuroscience

Alexei A. Aravin, Ph.D.
Biology,

Frances H. Arnold, Ph.D.
Linus Pauling Professor of Chemical Engineering, Bioengineering, and Biochemistry; Director, Donna and Benjamin M. Rosen Bioengineering Center

David Baltimore, Ph.D., D.Sc.h.c., D.Phil.h.c., Nobel Laureate
Robert Andrews Millikan Professor of Biology

Pamela Bjorkman, Ph.D.
David Baltimore Professor of Biology

Marianne Bronner, Ph.D.
Albert Billings Ruddock Professor of Biology, Director of the Beckman Institute

Long Cai, Ph.D.
Biology and Biological Engineering

Judith L. Campbell, Ph.D.
Chemistry and Biology

David C. Chan, M.D., Ph.D.
Biology

Michael H. Dickinson, Ph.D.
Esther M. and Abe M. Zarem Professor of Bioengineering and Aeronautics

William G. Dunphy, Ph.D.
Grace C. Steele Professor of Biology

Michael Elowitz, Ph.D.¹
Biology and Bioengineering; Executive Officer for Biological Engineering

Morteza Gharib, Ph.D.
Hans W. Liepmann Professor of Aeronautics and Bioinspired Engineering; Director, Graduate Aerospace Laboratories; Director, Center for Autonomous Systems and Technologies

Lea Goentoro, Ph.D.
Biology

¹ Joint appointment with Howard Hughes Medical Institute
Viviana Gradinaru, Ph.D.
Neuroscience and Biological Engineering; Investigator, Heritage Medical Research Institute; Director, Center for Molecular and Cellular Neuroscience

Mitchell Gutman, Ph.D.
Biology; Investigator, Heritage Medical Research Institute

Bruce A. Hay, Ph.D.
Biology

Rustem F. Ismagilov, Ph.D.
Ethel Wilson Bowles and Robert Bowles Professor of Chemistry and Chemical Engineering; Director of the Jacobs Institute for Molecular Engineering for Medicine

Grant J. Jensen, Ph.D.
Biophysics and Biology

Mary B. Kennedy, Ph.D.
Allen and Lenabelle Davis Professor of Biology

Henry A. Lester, Ph.D.
Biology

Stephen L. Mayo, Ph.D.
Bren Professor of Biology and Chemistry; William K. Bowes Jr. Leadership Chair, Division of Biology and Biological Engineering

Sarkis Mazmanian, Ph.D.
Luis B. and Nelly Soux Professor of Microbiology; Investigator, Heritage Medical Research Institute

Markus Meister, Ph.D.
Anne P. and Benjamin F. Biaggini Professor of Biological Sciences; Executive Officer for Neurobiology

Elliot M. Meyerowitz, Ph.D.
George W. Beadle Professor of Biology

Richard Murray, Ph.D.
Thomas E. and Doris Everhart Professor of Control and Dynamical Systems and Bioengineering

Dianne K. Newman, Ph.D.
Gordon M. Binder/Amgen Professor of Biology and Geobiology; Allen V.C. Davis and Lenabelle Davis Leadership Chair, Center for Environmental Microbial Interactions; Executive Officer for Molecular Biology

Yuki Oka, Ph.D.
Biology

Lior S. Pachter, Ph.D.
Bren Professor of Computational Biology and Computing and Mathematical Sciences

Robert B. Phillips, Ph.D.
Fred and Nancy Morris Professor of Biophysics, Biology, and Physics

Niles A. Pierce, Ph.D.
Professor of Applied and Computational Mathematics and Bioengineering

David Prober, Ph.D.
Biology

Lulu Qian, Ph.D.
Bioengineering

Ellen Rothenberg, Ph.D.
Albert Billings Ruddock Professor of Biology

Michael L. Roukes, Ph.D.
Frank J. Roshek Professor of Physics, Applied Physics, and Bioengineering

Shinsuke Shimojo, Ph.D.
Gertrude Baltimore Professor of Experimental Psychology

Athanasios G. Siapas, Ph.D.
Computation and Neural Systems; Executive Officer for Computation and Neural Systems

Angelike Stathopoulos, Ph.D.
Biology

Paul W. Sternberg, Ph.D.
Bren Professor of Biology

Doris Ying Tsa0, Ph.D. 1
Biology; T&C Chen Center for Systems Neuroscience Leadership Chair; Director, T&C Chen Center for Systems Neuroscience

Alexander J. Varshavsky, Ph.D.
Thomas Hunt Morgan Professor of Cell Biology

Erik Winfree, Ph.D.
Professor of Computer Science, Computation and Neural Systems, and Bioengineering

Barbara J. Wold, Ph.D.
Bren Professor of Molecular Biology

1 Joint appointment with Howard Hughes Medical Institute

Trustees, Administration, Faculty
Changhuei Yang, Ph.D.  
*Thomas G. Myers Professor of Electrical Engineering, Bioengineering, and Medical Engineering*

Magdalena Zernicka-Goetz, Ph.D.  
*Bren Professor of Biology and Biological Engineering*

Kai Zinn, Ph.D.  
*Howard and Gwen Laurie Smits Professor of Biology*

Assistant Professors

Elizabeth J. Hong, Ph.D.  
*Clare Boothe Luce Assistant Professor of Neuroscience*

Joseph Parker, Ph.D.  
*Biology and Biological Engineering*

Matt Thomson, Ph.D.  
*Computational Biology; Investigator, Heritage Medical Research Institute*

David Van Valen, Ph.D.  
*Biology and Biological Engineering*

Rebecca M. Voorhees, Ph.D.  
*Biology and Biological Engineering; Investigator, Heritage Medical Research Institute*

Kaihang Wang, Ph.D.  
*Biology and Biological Engineering*

Research Professors

Tsui-Fen Chou, Ph.D.
Katalin Fejes Toth, M.D., Ph.D.
David M. Glover, Ph.D.
Akiko Kumagai, Ph.D.
Carlos Lois, M.D., Ph.D.
Isabelle S. Peter Lashgari Faghani, Ph.D.
Daniel A. Wagenaar, Ph.D.
Mary An-yuan Yui, Ph.D.

Research Assistant Professor

Alina Patke, Ph.D.

Teaching Professor

Justin S. Bois, Ph.D.

Senior Faculty Associate

Alice S. Huang, Ph.D.

Visiting Associates

Takuya Akashi, Ph.D.
Clare Baker, Ph.D.
Colleen Cavanaugh, Ph.D.
William L. Caton III, M.D.
Vasileios N. Christopoulos, Ph.D.
Raymond Deshaies, Ph.D.
Pamela Eversole-Cire, Ph.D
Jordi Garcia-Ojalvo, Ph.D.
Ingileif Bryndis Hallgrimsdottir, Ph.D.
Anne Hart, Ph.D.
Elaine Hsiao, Ph.D.
Collin Kieffer, Ph.D.
Hyung Min Kim, Ph.D.
Brian Lee, M.D., Ph.D.
Carmel Levitan, Ph.D.
Ye Li, Ph.D.
Stephen B. Liggett, M.D.
Charles Liu, M.D., Ph.D.
Dao Nguyen, Ph.D.
Adam Mamelak, Ph.D.
Uri Maoz, Ph.D.
Eric Mjolsness, Ph.D.
Derrick Morton, Ph.D.
Carmie Puckett Robinson, M.D.
Animesh Ray, Ph.D.
Carol W. Readhead, Ph.D.
Ueli Rutishauser, Ph.D.
Daniel Schwartz, M.D.
Mohammad Hassan Abdelrahman Shehata, Ph.D.
Rishabh Shetty, Ph.D.
Linda Ann Silveira, Ph.D.
Amber Stubler, Ph.D.

† Joint appointment with Howard Hughes Medical Institute
Shan Li, Ph.D.,
Ting Li, Ph.D.\textsuperscript{1}
Yatang Li, Ph.D.
Lu Liu, Ph.D.
Yuxi Liu, Ph.D.
Zachery Lonergan Ph.D.
Francisco Luongo, Ph.D.
Ke Lyu, Ph.D.
Frank Macabenta, Ph.D.
Vishal Maingi, Ph.D.
Sierra Marable, Ph.D.
Megan Martik, Ph.D.
Tara Mastro, Ph.D.
Darcy McRose, Ph.D.
Lauren Ann Metskas, Ph.D.
Erick Moen, Ph.D.
Krithika Mohan, Ph.D.
George Mountoufaris, Ph.D.\textsuperscript{1}
Ranjani Murali, Ph.D.
Brittany D. Needham, Ph.D.
Susan Newcomb, Ph.D.
Aaron L. Nichols, Ph.D.
William Nicolas, Ph.D.
Maria Ninova, Ph.D.
Sumner Norman, Ph.D.
Georg Oberhofer, Ph.D.
Aki Ohdera, Ph.D.
Noah Ollikainen, Ph.D.
Youcef Ouadah, Ph.D.
Ariana Peck, Ph.D.
Nicolas Pelaez Restrepo, Ph.D.
Michael Louis Piacentino, Ph.D.
Tino Pleiner, Ph.D.
Michal Polonsky, Ph.D.
Allan Hermann Pool, Ph.D.
Mu Qiao, Ph.D.
Sofia Quinodoz, Ph.D.
Nitzan Razin, Ph.D.
Ivo Ros, Ph.D.
Rachel Rosenzweig Ph.D.
Yuan Ruan, Ph.D.\textsuperscript{1}
Sofia Sakellardi, Ph.D.
Lindsey Salay, Ph.D.
Luís Oscar Sanchez Guardado, Ph.D.
Estefania Sanchez Vasquez, Ph.D.
Scott Saunders Ph.D.
Dominic Scalise, Ph.D.
Dominik Schildknecht, Ph.D.
Henry L. Schreiber IV, Ph.D.
Catherine Schretter, Ph.D.
Shahriar Shadkhoo Ph.D.
Kevin Shan, Ph.D.
Liang She, Ph.D.
Jia Shen, Ph.D.
Pei Yin Shih, Ph.D.
Boyoung Shin, Ph.D.
Tom Sidwell, Ph.D.
Kyobi Skutt-Kakaria, Ph.D.
Tianqi Song, Ph.D.
Berna Sozen, Ph.D.
Melanie A. Spero, Ph.D.
Daan Speth, Ph.D.
Argyrios Stefanos Stagkourakis, Ph.D.
Vincent Andrew Stepanik, Ph.D.
Jan Stundl Ph.D.
Jingjing Sun, Ph.D.
Sai Sun, Ph.D.
Russell Swift, Ph.D.
Chieh Hsiang Tan Ph.D.
Qing Tang, Ph.D.
Akanksha Thawani, Ph.D.
Carsten Tischbirek, Ph.D.
Huy Ngoc Steven Tran, Ph.D.
Chelsey VanDrisse, Ph.D.
Amit Vinograd, Ph.D.
Xuan Wan, Ph.D.
Bo Wang, Ph.D.
Feng Wang, Ph.D.
Brandon Weissbourd, Ph.D.
Joseph Wekselblatt, Ph.D.
Fabai Wu, Ph.D.
Jin Xu, Ph.D.
Shuwa Xu, Ph.D.
Takako Yamamoto, D.D.S, Ph.D.
Zhe Yang, Ph.D.
Qing Yao, Ph.D.
Bryan Yoo, Ph.D.
An Zhang, Ph.D.
Gang Zhang, Ph.D.
Rong Wei Zhang, Ph.D.
Wei Zhao, Ph.D.
Yuan Zhao, Ph.D.
Yang Zheng, Ph.D.
Dhruv Zocchi Ph.D.

Visitors

Elaine L. Bearer, Ph.D., M.D
Libera Berghella, Ph.D.
Ailin Buzzi, Ph.D.
Maria de Bellard, Ph.D.
Paul Chang, M.S.
Constantine Evans, Ph.D.
Kirsten Frieda, Ph.D.
Alexei Kotov, Ph.D.
Stefan Kreida, Ph.D.
Davide Mariani, Ph.D.
Jasna Markovac, Ph.D.
Michael Marks, Ph.D.
Alex Nisthal, Ph.D.
Barry Olafson, Ph.D.
David J. Sherman, Ph.D.
Noelle Stiles, Ph.D.
Takashi Suegami, Ph.D.
DIVISION OF CHEMISTRY AND CHEMICAL ENGINEERING

Dennis Dougherty
Norman Davidson Leadership Chair

John F. Brady
Executive Officer for Chemical Engineering

Sarah Reisman
Executive Officer for Chemistry

Shu-ou Shan
Executive Officer for Biochemistry and Molecular Biophysics

Professors Emeriti

Fred C. Anson, Ph.D., D.h.c.
Elizabeth W. Gilloon Professor of Chemistry

John D. Baldeschwieler, Ph.D.
J. Stanley Johnson Professor and Professor of Chemistry

John E. Bercaw, Ph.D.
Centennial Professor of Chemistry

Sunney I. Chan, Ph.D.
George Grant Hoag Professor of Biophysical Chemistry

Peter B. Dervan, Ph.D., D.Sc.h.c.
Bren Professor of Chemistry

George R. Gavalas, Ph.D.
Chemical Engineering

Vincent McKoy, Ph.D.
Theoretical Chemistry

Professors

Theodor Agapie, Ph.D.
Chemistry

Frances H. Arnold, Ph.D., Nobel Laureate
Linus Pauling Professor of Chemical Engineering, Bioengineering, and Biochemistry, Director of the Donna and Benjamin M. Rosen Bioengineering Center

Jacqueline K. Barton, Ph.D., D.Sc.h.c., D.L.h.c. John G. Kirkwood and Arthur A. Noyes Professor of Chemistry

Jesse L. Beauchamp, Ph.D.
Mary and Charles Ferkel Professor of Chemistry

Geoffrey A. Blake, Ph.D.
Cosmochemistry and Planetary Sciences and Chemistry

John F. Brady, Ph.D.
Chevron Professor of Chemical Engineering and Mechanical Engineering, Executive Officer for Chemical Engineering

Judith L. Campbell, Ph.D.
Chemistry and Biology

Garnet K. Chan, Ph.D.
Bren Professor of Chemistry

William C. Clemens, Ph.D.
Biochemistry

Mark E. Davis, Ph.D.
Warren and Katharine Schlinger Professor of Chemical Engineering

Dennis A. Dougherty, Ph.D.
George Grant Hoag Professor of Chemistry; Norman Davidson Leadership; Chair, Division of Chemistry and Chemical Engineering

Richard C. Flagan, Ph.D.
Irma and Ross McColum-William H. Corcoran Professor of Chemical Engineering and Environmental Science and Engineering

Gregory C. Fu, Ph.D.
Altair Professor of Chemistry

Konstantinos P. Giapis, Ph.D.
Chemical Engineering

William A. Goddard III, Ph.D.
Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics

Harry B. Gray, Ph.D., D.Sc.h.c., Laurea h.c., Fil.Dr.h.c., D.L.h.c.
Arnold O. Beckman Professor of Chemistry and Founding Director of the Beckman Institute

Robert H. Grubbs, Ph.D., Nobel Laureate
Victor and Elizabeth Atkins Professor of Chemistry

Andre Hoelz, Ph.D.
Chemistry

Linda C. Hsieh-Wilson, Ph.D.
Chemistry

1 Joint appointment with Howard Hughes Medical Institute

Trustees, Administration, Faculty
Rustem F. Ismagilov, Ph.D.
Ethel Wilson Bowles and Robert
Bowles Professor of Chemistry
and Chemical Engineering, Director
of the Jacobs Institute for Molecular
Engineering for Medicine

Julia Kornfield
Chemical Engineering

Nathan S. Lewis, Ph.D.
George L. Argyros Professor and
Professor of Chemistry

Rudolph A. Marcus, Ph.D., D.Sc.h.c.,
Fil.Dr.h.c., D.h.c., Nobel Laureate
John G. Kirkwood and Arthur A. Noyes
Professor of Chemistry

Stephen L. Mayo, Ph.D.
Bren Professor of Biology and
Chemistry, William K. Bowles Jr.
Leadership Chair, Division of
Biology and Biological Engineering

Thomas F. Miller III, Ph.D.
Chemistry

Mitchio Okumura, Ph.D.
Chemical Physics

Carl S. Parker, Ph.D.
Biochemistry

Jonas C. Peters, Ph.D.
Bren Professor of Chemistry,
Director of the Resnick
Sustainability Institute

Douglas C. Rees, Ph.D.¹
Roscoe Gilkey Dickinson Professor of
Chemistry, Dean of Graduate Studies

Sarah E. Reisman, Ph.D.
Chemistry, Executive Officer for
Chemistry

John H. Seinfeld, Ph.D., D.Sc.h.c.
Louis E. Nohl Professor and
Professor of Chemical Engineering

Shu-ou Shan, Ph.D.
Chemistry, Executive Officer for
Biochemistry and Molecular Biology

Mikhail G. Shapiro, Ph.D.
Chemical Engineering,
Investigator, Heritage Medical Re-
search Institute

Brian M. Stoltz, Ph.D.
Chemistry

David A. Tirrell, Ph.D., D.h.c.
Ross McCollum—William H.
Corcoran Professor and Professor of
Chemistry and Chemical
Engineering, Provost

Zhen-Gang Wang, Ph.D.
Lawrence A. Hanson Jr. Professor of
Chemical Engineering

Daniel P. Weitekamp, Ph.D.
Chemical Physics

Assistant Professors

Scott K. Cushing, Ph.D.
Chemistry

Ryan G. Hadt, Ph.D.
Chemistry

Alison E. Ondrus, Ph.D.
Chemistry

Maxwell J. Robb, Ph.D.
Chemistry

Kimberly A. See, Ph.D.
Chemistry

Daniel R. Semlow, Ph.D.
Biochemistry

Lu Wei, Ph.D.
Chemistry

Lecturers

Kathryn Bikle, M.A.
Chemistry

Nathan Dalleska, Ph.D.
Chemistry

Christian Goodnow, M.S.
Chemistry

Jeffrey Mendez, Ph.D.
Chemistry

Michael Takase, Ph.D.
Chemistry

Scott Virgil, Ph.D.
Chemistry

Michael Vicic, Ph.D.
Chemical Engineering

Jay R. Winkler, Ph.D.
Chemistry

Faculty Associates

Jay A. Labinger, Ph.D.
Chemistry
Visiting Associates

Qi An, Ph.D.
*Materials Engineering*

Calum Chisolm, Ph.D.
*Materials Science*

Won-chae Choe, Ph.D.
*Biochemistry*

Shasha Chong, Ph.D.
*Chemistry*

Siddharth Dasgupta, Ph.D.
*Chemistry*

Stephen Forman, M.D.
*Medicine*

Alessandro Fortunelli, Ph.D.
*Chemistry*

Zeev Gross, Ph.D.
*Chemistry*

Michael Hill, Ph.D.
*Chemistry*

James B. Howard, Ph.D.
*Biochemistry*

Paul La Porte, Ph.D.
*Biology*

Darrin Lee, Ph.D.
*Neuroscience*

Yongle Li, Ph.D.
*Chemistry*

Ofir Shoshanim, Ph.D.
*Chemistry*

Joanna Sulkowski, Ph.D.
*Physics*

Robert Tanner, Ph.D.
*Chemical Engineering*

Fulvia Villani, Ph.D.
*Photobiology*

John Williams, Ph.D.
*Chemistry*

Yun Yen, Ph.D.
*Pathology and Cell Biology*

Shaocai Yu, Ph.D.
*Atmospheric Science*

Bruce S. Brunschwig, Ph.D.
Jay R. Winkler, Ph.D.

Members of the Professional Staff

Suresha Guptha, M.S.
*Chemical Engineering*

Lawrence R. Henling, M.S.
*Chemistry*

Sonjong Hwang, Ph.D.
*Chemistry*

Jay Labinger, Ph.D.
*Chemistry*

Boris Merinov, Ph.D.
*Chemistry*

Mona Shahgholi, Ph.D.
*Chemistry*

David Vander Velde, Ph.D
*Chemistry*

Senior Postdoctoral Scholar

Christopher Bley, Ph.D.

Postdoctoral Scholars

Soumitra Athavale, Ph.D.
Gwendolyn Bailey, Ph.D.
Renata Balgley, Ph.D.
Avinoam Bar Zion, Ph.D.
Yasemin Basdogan, Ph.D.
Suzanne Batiste, Ph.D.
Said Bogatyrev, Ph.D.
Trixia Buscagan, Ph.D.
Miguel Caban-Acevedo, Ph.D.
Caiyou Chen, Ph.D.
Tzu-Ling Chen, Ph.D.
Yu-Shiuan Cheng, Ph.D.
Simon Cooper, Ph.D.
Gozde Demirer, Ph.D.
Joseph DeRosa, Ph.D.
Jorge Emiliano Deustua Stahr, Ph.D.
Noah Dunham, Ph.D.
Javier Fajardo, Jr., Ph.D.
Chengcheng Fan, Ph.D.
Arash Farhadi, Ph.D.
Conner Farley, Ph.D.
Alec Follmer, Ph.D.
Fu, Donglong, Ph.D.
Pablo Garrido Barros, Ph.D.
Anna Gres, Ph.D.
Steffen Gressies, Ph.D.
Arpit Gupta, Ph.D.
Reza Haghshenas, Ph.D.
David Hill, Ph.D.
Xiaoran Hu, Ph.D.
Bo Shun Huang, Ph.D.
Veronica Hubble, Ph.D.
Tamara Husch, Ph.D.
Si Hyung Jin, Ph.D.
Amelie Joffrin, Ph.D.
Kevin Kempfer, Ph.D.
Dainius Kilda, Ph.D.
Hailey Knox, Ph.D.
Soonho Kwon, Ph.D.
Henrik Larsson, Ph.D.
Forrest Laskowski, Ph.D.
Joanne Yee Jin Lau, Ph.D.
Heejun Lee, Ph.D.
Seunghoon Lee, Ph.D.
Alfred Lentzsch, Ph.D.
Benjamin Levin, Ph.D.
Hanzhe Liu, Ph.D.
Xiaoyu Liu, Ph.D.
Yumeng Liu, Ph.D.
Zhen Liu, Ph.D.
Trevor Lohrey, Ph.D.
Marcella Lusardi, Ph.D.
Amirhossein Mafi, Ph.D.
Ioan Bogdan Magdau, Ph.D.
Stewart Mallory, Ph.D.
Sriteja Mantha, Ph.D.
Charles Markus, Ph.D.
Andrew Martinovich, Ph.D.
Brendon McNickolich, Ph.D.
David Miller, Ph.D.
George Mobbs, Ph.D.
Socrates Munoz, Ph.D.
Adela Nano, Ph.D.
Primali Navaratne, Ph.D.
Robynne Neff, Ph.D.
Si Nie, Ph.D.
Nitin Jalindar Pawar, Ph.D.
Miguel Pinto, Ph.D.
Nicholas Porter, Ph.D.
Buddhi Pushpawela, Ph.D.
Chenxi Qian, Ph.D.
Claire Rabut, Ph.D.
Alexander Rand, Ph.D.
Raheleh Ravanfar, Ph.D.
Md Kausar Raza, Ph.D.
Nadia Riera Faroone, Ph.D.
Varun Rishi, Ph.D.
Jorge Alonso Rosas Hernandez, Ph.D.
Stephen Sardini, Ph.D.
Henry Schurkus, Ph.D.
Carl Sedgeman, Ph.D.
Naima G. Sharaf, Ph.D.
Manar Shoshani, Ph.D.
Philip Shushkov, Ph.D.
Alexander Riegel Siegel, Ph.D.
Rebekah Silva, Ph.D.
Bradley Silverman, Ph.D.
Seunghyun Sim, Ph.D.
Burton Simpson, Ph.D.
Chang Yun Son, Ph.D.
Lars Suesse, Ph.D.
Ruslan Tazhigulov, Ph.D.
Arnaud Thevenon, Ph.D.
Stephanie Threatt, Ph.D.
Jianchun Wang, Ph.D.
Lei Wang, Ph.D.
Rebecca Warack, Ph.D.
Alec White, Ph.D.
Yan Xu, Ph.D.
Moon Young Yang, Ph.D.
Yang Yang, Ph.D.
Zepeng Yang, Ph.D.
Yuxing Yao, Ph.D.
Sangjin Yoo, Ph.D.
Ki Young Yoon, Ph.D.
Huanchen Zhai, Ph.D.
Tianyu Zhu, Ph.D.

Visitors

Wei-Chen Chen, Ph.D.
Chemistry

Bryan Hunter, Ph.D.
Chemistry

Qi Sheng Ma, Ph.D.
Physics

Smaranda Marinescu, Ph.D.
Inorganic Chemistry

Ricardo Matute, Ph.D.
Chemistry

Ryan McCarty, Ph.D.
Geological Sciences

Artem Pulkin
Chemical Engineering

Karn Sorasaenee, Ph.D.
Chemistry

Jau Huei Tang, Ph.D.
Physics

Andrew Udit, Ph.D.
Chemistry

Keiko Yokoyama, Ph.D.
Biochemistry

Ted Yu, Ph.D.
Materials Science
**DIVISION OF ENGINEERING AND APPLIED SCIENCE**

Guruswami Ravichandran  
Otis Booth Leadership Chair

Christopher M. Umans  
EAS Division Deputy Chair

José E. Andrade  
Cecil and Sally Drinkward Leadership Chair; Executive Officer for Mechanical and Civil Engineering

Azita Emami  
Executive Officer for Electrical Engineering

Morteza Gharib  
Booth-Kresa Leadership Chair, Center for Autonomous Systems and Technologies; Director, Graduate Aerospace Laboratories

Yu-Chong Tai  
Andrew and Peggy Cherng Medical Engineering Leadership Chair; Executive Officer for Medical Engineering

Kerry J. Vahala  
Executive Officer for Applied Physics and Materials Science

Paul O. Wennberg  
Executive Officer for Environmental Science and Engineering

Adam C. Wierman  
Executive Officer for Computing and Mathematical Sciences

**Professors Emeriti**

James L. Beck, Ph.D.  
George W. Housner Professor of Engineering and Applied Science

Christopher E. Brennen, D.Phil.  
Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering

William B. Bridges, Ph.D.  
Carl F Braun Professor of Engineering

Norman H. Brooks, Ph.D.  
James Irvine Professor of Environmental and Civil Engineering

K. Mani Chandy, Ph.D.  
Simon Ramo Professor of Computer Science

Noel R. Corngold, Ph.D.  
Applied Physics

Fred E. Culick, Ph.D.  
Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering and Professor of Jet Propulsion

James P. Eisenstein, Ph.D.  
Frank J. Roshek Professor of Physics and Applied Physics

Charles Elachi, Ph.D.  
Electrical Engineering and Planetary Science

Thomas E. Everhart, Ph.D., D.L.h.c., D.h.c.  
Electrical Engineering and Applied Physics

David L. Goodstein, Ph.D.  
Frank J. Gilloon Distinguished Teaching and Service Professor and Professor of Physics and Applied Physics

Roy W. Gould, Ph.D.  
Simon Ramo Professor of Engineering

John F. Hall, Ph.D.  
Civil Engineering

Thomas H. Heaton, Ph.D.  
Engineering Seismology

Hans G. Hornung, Ph.D., D.h.c.  
C. L. “Kelly” Johnson Professor of Aeronautics

Wilfred D. Iwan, Ph.D.  
Applied Mechanics

Paul C. Jennings, Ph.D.  
Civil Engineering and Applied Mechanics

William L. Johnson, Ph.D.  
Ruben F. and Donna Mettler Professor of Engineering and Applied Science

Wolfgang G. Knauss, Ph.D.  
Theodore von Kármán Professor of Aeronautics and Applied Mechanics

Anthony Leonard, Ph.D.  
Theodore von Kármán Professor of Aeronautics

E. John List, Ph.D.  
Environmental Engineering Science

Alain J. Martin, Ing.  
Computer Science

Carver Mead, Ph.D., D.Sc.h.c., D.h.c.  
Gordon and Betty Moore Professor of Engineering and Applied Science

Trustees, Administration, Faculty
James J. Morgan, Ph.D., D.Sc.h.c.
Marvin L. Goldberger Professor of Environmental Engineering Science

Marc A. Nicolet, Ph.D.
Electrical Engineering and Applied Physics

Michael Ortiz, Ph.D.
Frank and Ora Lee Marble Professor of Aeronautics and Mechanical Engineering

David B. Rutledge, Ph.D.
Kiyo and Eiko Tomiyasu Professor of Engineering

Theodore Y. Wu, Ph.D.
Engineering Science

Professors

Yaser S. Abu-Mostafa, Ph.D.
Electrical Engineering and Computer Science

Jess F. Adkins, Ph.D.
Smith Family Professor of Geochemistry and Global Environmental Science

Aaron D. Ames, Ph.D.
Bren Professor of Mechanical and Civil Engineering and Control and Dynamical Systems

Animashree Anandkumar, Ph.D.
Bren Professor of Computing and Mathematical Sciences

José E. Andrade, Ph.D.
George W. Housner Professor of Civil and Mechanical Engineering

Domniki Asimaki, Ph.D.
Mechanical and Civil Engineering

Harry A. Atwater, Ph.D.
Howard Hughes Professor of Applied Physics and Materials Science; JCAP Director

Joanna M. Austin, Ph.D.
Aerospace

Jean-Philippe Avouac, Ph.D.
Earle C. Anthony Professor of Geology and Mechanical and Civil Engineering

Alan H. Barr, Ph.D.
Computer Science

Paul M. Bellan, Ph.D.
Applied Physics

Kaushik Bhattacharya, Ph.D.
Howell N. Tyson, Sr., Professor of Mechanics and Materials Science; Vice Provost

Guillaume Blanquart, Ph.D.
Mechanical Engineering

Simona Bordoni, Ph.D.
Environmental Science and Engineering

John F. Brady, Ph.D.
Chevron Professor of Chemical Engineering and Mechanical Engineering

Robert D. Braun, Ph.D.
Aerospace; Director of the JPL Planetary Science Directorate

Jehoshua Bruck, Ph.D.
Gordon and Betty Moore Professor of Computation and Neural Systems and Electrical Engineering

Oscar P. Bruno, Ph.D.
Applied and Computational Mathematics

Joel W. Burdick, Ph.D.
Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering and Bioengineering; JPL Research Scientist

Venkat Chandrasekaran, Ph.D.
Computing and Mathematical Sciences and Electrical Engineering

Soon-Jo Chung, Sc.D.
Bren Professor of Aerospace; JPL Research Scientist

Timothy E. Colonius, Ph.D.
Frank and Ora Lee Marble Professor of Mechanical Engineering

John O. Dabiri, Ph.D.
Centennial Professor of Aeronautics and Mechanical Engineering

Chiara Daraio, Ph.D.
Mechanical Engineering and Applied Physics

Mathieu Desbrun, Ph.D.
Carl F Braun Professor of Computing and Mathematical Sciences

Michael H. Dickinson, Ph.D.
Esther M. and Abe M. Zarem Professor of Bioengineering and Aeronautics

Paul E. Dimotakis, Ph.D.
John K. Northrop Professor of Aeronautics and Professor of Applied Physics
John C. Doyle, Ph.D.
Jean-Lou Chameau Professor of Control and Dynamical Systems, Electrical Engineering, and Bioengineering

Michelle Effros, Ph.D.
George Van Osdel Professor of Electrical Engineering

Michael B. Elowitz, Ph.D.
Biology and Bioengineering; HHMI Investigator; Executive Officer for Biological Engineering

Azita Emami, Ph.D.
Andrew and Peggy Chen Professor of Electrical Engineering and Medical Engineering; HHMI Investigator

Katherine T. Faber, Ph.D.
Simon Ramo Professor of Materials Science

Andrei Faraon, Ph.D.
Applied Physics and Electrical Engineering

Richard C. Flagan, Ph.D.
Irma and Ross McCollum—William H. Corcoran Professor of Chemical Engineering and Environmental Science and Engineering

Brent T. Fultz, Ph.D.
Barbara and Stanley R. Rawn, Jr., Professor of Materials Science and Applied Physics

Morteza Gharib, Ph.D.
Hans W. Liepmann Professor of Aeronautics and Bioinspired Engineering; Director, Center for Autonomous Systems and Technologies

William A. Goddard, Ph.D.
Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics

Julia R. Greer, Ph.D.
Ruben F. and Donna Mettler Professor of Materials Science, Mechanics and Medical Engineering; Fletcher Jones Foundation; Director of the Kavli Nanoscience Institute

Ali Hajimiri, Ph.D.
Bren Professor of Electrical Engineering and Medical Engineering; Co-Director, Space-Based Solar Power Project

Babak Hassibi, Ph.D.
Mose and Lillian S. Bohn Professor of Electrical Engineering and Computing and Mathematical Sciences

Michael R. Hoffmann, Ph.D.
John S. and Sherry Chen Professor of Environmental Science

Yizhao Thomas Hou, Ph.D.
Charles Lee Powell Professor of Applied and Computational Mathematics

Melany L. Hunt, Ph.D.
Dotty and Dick Hayman Professor of Mechanical Engineering

Victoria Kostina, Ph.D.
Electrical Engineering

Nadia Lapusta, Ph.D.
Lawrence A. Hanson, Jr., Professor of Mechanical Engineering and Geophysics

Jared R. Leadbetter, Ph.D.
Environmental Microbiology

Steven H. Low, Ph.D.
Frank J. Gilloon Professor of Computing and Mathematical Sciences and Electrical Engineering

Matilde Marcolli, Ph.D.
Robert F. Christy Professor of Mathematics and Computing and Mathematical Sciences

Beverly J. McKeon, Ph.D.
Theodore von Kármán Professor of Aeronautics

Daniel I. Meiron, Sc.D.
Fletcher Jones Professor of Aeronautics and Applied and Computational Mathematics

Austin J. Minnich, Ph.D.
Mechanical Engineering and Applied Physics

Richard M. Murray, Ph.D.
Thomas E. and Doris Everhart Professor of Control and Dynamical Systems and Bioengineering; William K. Bowes Jr. Leadership Chair, Division of Biology and Biological Engineering

Houman Owhadi, Ph.D.
Applied and Computational Mathematics and Control and Dynamical Systems

Lior S. Pachter, Ph.D.
Bren Professor of Computational Biology and Computing and Mathematical Sciences

Oskar J. Painter, Ph.D.
John G. Braun Professor of Applied Physics and Physics
Historical Sketch

Engineering and Applied Science

1 Joint appointment with Howard Hughes Medical Institute
Amnon Yariv, Ph.D.
Martin and Eileen Summerfield Professor of Applied Physics and Electrical Engineering

Yisong Yue, Ph.D.
Computing and Mathematical Sciences

Assistant Professors

Marco Bernardi, Ph.D.
Applied Physics and Materials Science

Katherine L. Bouman, Ph.D.
Computing and Mathematical Sciences and Electrical Engineering; Rosenberg Scholar

Joseph L. Falsone, Ph.D.
Materials Science

Xiaojing (Ruby) Fu, Ph.D.
Mechanical and Civil Engineering

Wei Gao, Ph.D.
Cherng Department of Medical Engineering

Urmila Mahadev, Ph.D.
Computing and Mathematical Sciences

Alireza Marandi, Ph.D.
Electrical Engineering and Applied Physics

Seyed Mohammad Mirhosseini Niri, Ph.D.
Electrical Engineering

Teaching Professors

Glen A. George, M.S.
Electrical Engineering

Michael Mello, Ph.D.
Mechanical and Civil Engineering

Michael C. Vanier, Ph.D.
Computing and Mathematical Sciences

Teaching Assistant Professors

Adam Blank, M.S.
Computing and Mathematical Sciences

Melissa Hovik, M.S.
Computing and Mathematical Sciences

Konstantin M. Zuev, Ph.D.
Computing and Mathematical Sciences

Instructors

Krithika Manohar, Ph.D.
Computing and Mathematical Sciences

Donald Pinkston III, B.S.
Schmidt Software Academy Instructor

Elizabeth Y. Qian, Ph.D.
Computing and Mathematical Sciences

Lecturers

Channing Ahn, Ph.D.
Applied Physics and Materials Science

Matthew J. L. Anderson, Ph.D.*
Mechanical and Civil Engineering

Erin R. Burkett, Ph.D.
Engineering

Stefano Campagnola, Ph.D
Aerospace

Mamadou S. Diallo, Ph.D.*
Applied Physics and Materials Science

Alireza Ghaffari, M.S.
Applied Physics and Materials Science

Douglas C. Hofmann, Ph.D.
Applied Physics and Materials Science

Cassandra V. Horii, Ph.D.
Engineering

Robyn M. Javier, Ph.D.
Engineering

Rajeev Joshi, Ph.D.*
Computing and Mathematical Sciences

Andrew T. Klesh, Ph.D.
Aerospace

Gunter Niemeyer, Ph.D.
Mechanical and Civil Engineering

Shouleh Nikzad, Ph.D.
Cherng Department of Medical Engineering

Richard Ohanian, M.S.
Electrical Engineering

Danny Petrasek, Ph.D.
Cherng Department of Medical Engineering

Trustees, Administration, Faculty
Donald Pinkston III, B.S.
Computing and Mathematical Sciences

James E. Polk, Ph.D.
Aerospace

Amir R. Rahmani, Ph.D.*
Aerospace

Claire C. Ralph, M.S.
Computing and Mathematical Sciences

Chris Roh, Ph.D.*
Cherng Department of Medical Engineering

Damon S. Russell, Ph.D.*
Electrical Engineering

Paul B. Stovall
Mechanical and Civil Engineering

John P. Van Deusen, B.S.
Mechanical and Civil Engineering

Lilien N. Voong, Ph.D.
Engineering

Jennifer Weaver, Ph.D.
Engineering

Nathan M. Wilson, Ph.D.
Engineering

*In residence 2019-20

Research Professors

Monica D. Kohler, Ph.D.
Mechanical and Civil Engineering

Hillary Mushkin, MFA
Art and Design and Humanities and Social Sciences

Paul W. K. Rothemund, Ph.D.
Bioengineering, Computing & Mathematical Sciences, and Computation and Neural Systems

Visiting Associates

Daniel Arthur, Ph.D.
Mechanical and Civil Engineering

Josette Bellan, Ph.D.
Mechanical and Civil Engineering

Harsha S. Bhat, Ph.D.
Aerospace

Amy Braverman, Ph.D.
Computing and Mathematical Sciences

Alaina Brinley, M.D., Ph.D.
Electrical Engineering

Gentian Buzi, Ph.D.
Computing and Mathematical Sciences

Wan Cheng, Ph.D.
Aerospace

Hyuck Choo, Ph.D.
Electrical Engineering

R. Dale Conner, Ph.D.
Applied Physics and Materials Science

Marios D. Demetriou, Ph.D.
Applied Physics and Materials Science

Emmanuel Gdoutos, Ph.D.
Aerospace

Ashwin Gopinath, Ph.D.
Computing and Mathematical Sciences

Jonathan Grandidier, Ph.D.
Applied Physics and Materials Science

John C. Hemminger, Ph.D.
Applied Physics and Materials Science

Douglas C. Hofmann, Ph.D.
Applied Physics and Materials Science

Jack Lee Jewell, Ph.D.
Applied Physics and Materials Science

Karanjit Kalsi, Ph.D.
Computing and Mathematical Sciences

Farbod Khoshnoud, Ph.D.
Aerospace

Robert J. Lang, Ph.D.
Mechanical and Civil Engineering

Scott Mark Lewis, Ph.D.
Applied Physics and Materials Science

Chen Li, Ph.D.
Applied Physics and Materials Science

Alexis C. Livanos, Ph.D.
Aerospace

Joerg Loeffler, Dr. sc. nat.
Applied Physics and Materials Science

Douglas G. MacMartin, Ph.D.
Computing and Mathematical Sciences

Sami F. Masri, Ph.D.
Mechanical and Civil Engineering
Hossein Mosallaei, Ph.D.
Applied Physics and Materials Science

Leora Peltz, Ph.D.
Applied Physics and Materials Science

Peter A. Petillo, Ph.D.
Applied Physics and Materials Science

Danny Petrasek, Ph.D.
Cherng Department of Medical Engineering

Aditya Rajagopal, Ph.D.
Electrical Engineering

Alton D. Romig, Ph.D.
Applied Physics and Materials Science

Phoebe Rosakis, Ph.D.
Aerospace

Damon S. Russell, Ph.D.
Electrical Engineering

Konrad H. Samwer, Ph.D.
Applied Physics and Materials Science

Jonathan Sauder, Ph.D.
Aerospace

Peter C. Sercel, Ph.D.
Applied Physics and Materials Science

Constantine Sideris, Ph.D.
Computing and Mathematical Sciences

Mark Stalzer, Ph.D.
Computing and Mathematical Sciences

Shervin Taghavi Larigani, Ph.D.
Mechanical and Civil Engineering

Benjamin T. Vest, Ph.D.
Applied Physics and Materials Science

Peter W. Voorhees, Ph.D.
Applied Physics and Materials Science

Pin Chieh Wu, Ph.D.
Applied Physics and Materials Science

Wei Yan, Ph.D.
Applied Physics and Materials Science

Zhifu Yin, Ph.D.
Cherng Department of Medical Engineering

Yurong Zhou, M.D., Ph.D.
Cherng Department of Medical Engineering

Members of the Professional Staff

Xenia Amashukeli, Ph.D.
Resnick Sustainability Institute

Nathan F. Dalleska, Ph.D.
Global Environmental Center

Guy A. DeRose, Ph.D.
Applied Physics and Materials Science

Alireza Ghaffari, M.S.
Applied Physics and Materials Science

Joel A. Haber, Ph.D.
Joint Center for Artificial Photosynthesis

Christos T. Santis, Ph.D.
Applied Physics and Materials Science

Chengxiang Xiang, Ph.D.
Joint Center for Artificial Photosynthesis

Senior Postdoctoral Scholars

Mohamadreza Ahmadi, Ph.D.
Mechanical and Civil Engineering

Spencer Bryngelson, Ph.D.
Mechanical and Civil Engineering

Pilar Espinet Gonzalez, Ph.D.
Applied Physics and Materials Science

Bamdad Hosseini, Ph.D.
Computing & Mathematical Sciences

Postdoctoral Scholars

Matthew James Anderson, Ph.D.
Aerospace

Harpreet Singh Arora, Ph.D.
Aerospace

Ruobing Bai, Ph.D.
Mechanical and Civil Engineering

Chengying Bao, Ph.D.
Resnick Sustainability Institute
Postdoctoral Scholar in Applied Physics and Materials Science

Baptiste Blochet, Ph.D.
Electrical Engineering

Zachery Nathaniel Bullock, Ph.D.
Mechanical and Civil Engineering

Rui Cao, Ph.D.
Cherng Department of Medical Engineering

Shunxiang Cao, Ph.D.
Mechanical and Civil Engineering
Vincenzo Capuano, Ph.D.  
Aerospace

Yuxiao Chen, Ph.D.  
Mechanical and Civil Engineering

Yuxin Chen, Ph.D.  
Computing and Mathematical Sciences

Zhongtao Cheng, Ph.D.  
Cherng Department of Medical Engineering

Lynn Chua, Ph.D.  
Computing and Mathematical Sciences

Griffin Daniel Chure, Ph.D.  
Applied Physics and Materials Science

Ernesto Hidalgo Criado, Ph.D.  
James Boswell Postdoctoral Scholar in Aerospace

Samuel Pascal Xia Davis, Ph.D.  
Cherng Department of Medical Engineering

Chandru Dhandapani, Ph.D.  
Mechanical and Civil Engineering

Michelle Feng, Ph.D.  
Computing and Mathematical Sciences

Matthew Kuenzli Fu, Ph.D.  
Aerospace

Shiyuan Gao, Ph.D.  
Applied Physics and Materials Science

Antonio Joaquin Suarez Garcia, Ph.D.  
Mechanical and Civil Engineering

Fernando Estefan Thibodeaux Garcia, Ph.D.  
Mechanical and Civil Engineering

Meir Yoel Grajower, Ph.D.  
Applied Physics and Materials Science

Lei Guo, Ph.D.  
Environmental Science and Engineering

Qiushi Guo, Ph.D.  
Electrical Engineering

Hamed Bajgiran Hamze  
Computing and Mathematical Sciences

Armanj Hasanyan, Ph.D.  
Aerospace

Zhe He, Ph.D.  
Cherng Department of Medical Engineering

Wolfgang Hoenig, Ph.D.  
Aerospace

De Huang, Ph.D.  
Computing and Mathematical Sciences

Saman Jahani, Ph.D.  
Electrical Engineering

Siddharth Jain, Ph.D.  
Electrical Engineering

Byoung-Jin Jeon, Ph.D.  
Computing and Mathematical Sciences

Pankaj Kumar Jha, Ph.D.  
Applied Physics and Materials Science

Anjul Khadria, Ph.D.  
Cherng Department of Medical Engineering

Mohammad Javad Khojasteh, Ph.D.  
Electrical Engineering

Siavash Monfared Sokhan Khosh, Ph.D.  
Mechanical and Civil Engineering

Mostafa Khosmanesh, Ph.D.  
Mechanical and Civil Engineering

Tae Woo Kim, Ph.D.  
Cherng Department of Medical Engineering

Andrew Jeungahn Lee, Ph.D.  
Aerospace

Aviad Levis, Ph.D.  
Computing & Mathematical Sciences

Jing Li, Ph.D.  
Environmental Science and Engineering

Lei Li, Ph.D.  
Cherng Department of Medical Engineering

Xueqian (Lucy) Li, Ph.D.  
KNI Postdoctoral Scholar in Applied Physics and Materials Science

Zhenzhen Li, Ph.D.  
Computing & Mathematical Sciences

Li Lin, Ph.D.  
Cherng Department of Medical Engineering

Anqi Liu Ph.D.  
Computing & Mathematical Sciences

Burigede Liu, Ph.D.  
Mechanical and Civil Engineering

Jingcheng Liu, Ph.D.  
Wally Baer and Jeri Weiss Postdoctoral Scholar in Computing and Mathematical Sciences

Engineering and Applied Science
Ke Liu, Ph.D.  
Mechanical and Civil Engineering

I Te Lu, Ph.D.  
Applied Physics and Materials Science

Ivan Maliyov, Ph.D.  
Applied Physics and Materials Science

Manav Manav, Ph.D.  
Aerospace

Soudabeh Sheikholharam Mashhadi, Ph.D.  
Applied Physics and Materials Science

Michaelle Mayalu, Ph.D.  
Computing & Mathematical Sciences

Srijan Meesala, Ph.D.  
Applied Physics and Materials Science

Kami Mohammadi, Ph.D.  
Mechanical and Civil Engineering

Shuai Na, Ph.D.  
Cherng Department of Medical Engineering

Trung Kien Nguyen, Ph.D.  
Computing & Mathematical Sciences

Elizabeth O’Reilly, Ph.D.  
Computing & Mathematical Sciences

John Claiborne Owens, Ph.D.  
Applied Physics and Materials Science

Jagabandhu Paul, Ph.D.  
Computing & Mathematical Sciences

Seth Pree, Ph.D.  
Applied Physics and Materials Science

Yunliang Qi, Ph.D.  
Aerospace

Guannan Qu, Ph.D.  
Resnick Sustainability Institute  
Postdoctoral Scholar in Computing and Mathematical Sciences

Suraj Muthiramalil Ravindran, Ph.D.  
Aerospace

Hengjiang Ren, Ph.D.  
Applied Physics and Materials Science

Mauro Rodriguez Jr., Ph.D.  
Mechanical and Civil Engineering

Ugo Rosolia, Ph.D.  
Mechanical and Civil Engineering

Oren Sabag, Ph.D.  
Electrical Engineering

Korhan Sahin, Ph.D.  
Aerospace

Hossein Pirsoltan Salahshoor, Ph.D.  
Aerospace

Lennart Schneiders, Ph.D.  
Mechanical and Civil Engineering

Sahil Shah, Ph.D.  
Electrical Engineering

Yuanyuan Shi, Ph.D.  
Computing & Mathematical Sciences

Ehsan Sani Shirzaei, Ph.D.  
Cherng Department of Medical Engineering

Jaimie Marie Stewart, Ph.D.  
Computing & Mathematical Sciences

He Sun, Ph.D.  
Computing & Mathematical Sciences

Xingsheng Sun, Ph.D.  
Aerospace

Yixuan Tan, Ph.D.  
Cherng Department of Medical Engineering

Takahiko Toki, Ph.D.  
Mechanical and Civil Engineering

Shih Hao Tseng, Ph.D.  
Computing & Mathematical Sciences

Minqiang Wang, Ph.D.  
Cherng Department of Medical Engineering

Peng Wang, Ph.D.  
Cherng Department of Medical Engineering

Yifan Wang, Ph.D.  
Mechanical and Civil Engineering

Qifan Yang, Ph.D.  
Applied Physics and Materials Science

Tao Yin, Ph.D.  
Computing and Mathematical Sciences

You Yu, Ph.D.  
Cherng Department of Medical Engineering

Yang Zhang, Ph.D.  
Cherng Department of Medical Engineering

Yide Zhang, Ph.D.  
Cherng Department of Medical Engineering

Ding Zhong, Ph.D.  
Applied Physics and Materials Science
Jinjian Zhou, Ph.D.
*Applied Physics and Materials Science*

Tingtao Zhou, Ph.D.
*Cecil and Sally Drinkward Postdoctoral Scholar in Mechanical and Civil Engineering*

Zhun Zhou, Ph.D.
*Mechanical and Civil Engineering*

Yanzhe Zhu, Ph.D.
*Environmental Science and Engineering*
DIVISION OF GEOLOGICAL AND PLANETARY SCIENCES

John P. Grotzinger
Ted and Ginger Jenkins Leadership Chair

Andrew F. Thompson
Divisional Academic Officer

Michael C. Gurnis
Director, Seismological Laboratory

Paul O. Wennberg, Director
Linde Center for Global Environmental Science

Professors Emeriti

Arden L. Albee, Ph.D.
Geology and Planetary Science

Clarence R. Allen, Ph.D.
Geology and Geophysics

Donald S. Burnett, Ph.D.
Nuclear Geochemistry

Charles Elachi, Ph.D.
Electrical Engineering and Planetary Science

Peter Goldreich, Ph.D.
Lee A. DuBridge Professor of Astrophysics and Planetary Physics

Thomas H. Heaton, Ph.D.
Professor of Engineering Seismology

Hiroo Kanamori, Ph.D.
John E. and Hazel S. Smits Professor of Geophysics

Duane O. Muhleman, Ph.D.
Planetary Science

Jason B. Saleeby, Ph.D.
Geology

Leon T. Silver, Ph.D.
W. M. Keck Foundation Professor for Resource Geology

Hugh P. Taylor Jr., Ph.D.
Robert P. Sharp Professor of Geology

Peter J. Wyllie, Ph.D., D.Sc.h.c.
Geology

Professors

Jess F. Adkins, Ph.D.
Smits Family Professor of Geochemistry and Global Environmental Science

Paul D. Asimow, Ph.D.
Eleanor and John R. McMillan Professor of Geology and Geochemistry

Jean-Philippe Avouac, Doctorat
Earle C. Anthony Professor of Geology and Mechanical and Civil Engineering

Konstantin Batygin, Ph.D.
Planetary Science

Geoffrey A. Blake, Ph.D.
Cosmochemistry and Planetary Science and Chemistry

Simona Bordoni, Ph.D.
Environmental Science and Engineering

Michael E. Brown, Ph.D.
Richard and Barbara Rosenberg Professor of Planetary Astronomy; Director of Caltech Center for Comparative Planetary Evolution

Robert W. Clayton, Ph.D.
Geophysics

Bethany L. Ehlmann, Ph.D.
Planetary Science; Jet Propulsion Laboratory Research Scientist

John M. Eiler, Ph.D.
Robert P. Sharp Professor of Geology and Geochemistry

Kenneth A. Farley, Ph.D.
W. M. Keck Foundation Professor of Geochemistry

Woodward W. Fischer, Ph.D.
Professor of Geobiology; Associate Director, Center for Autonomous Systems and Technologies

Christian Frankenberg, Ph.D.
Environmental Science and Engineering; Jet Propulsion Laboratory Research Scientist

John P. Grotzinger, Ph.D.
Fletcher Jones Professor of Geology

Michael C. Gurnis, Ph.D.
John E. and Hazel S. Smits Professor of Geophysics

Andrew P. Ingersoll, Ph.D.
Planetary Science

Trustees, Administration, Faculty
Jennifer M. Jackson, Ph.D.  
Mineral Physics

Joseph L. Kirschvink, Ph.D.  
Nico and Marilyn Van Wingen Professor of Geobiology

Heather A. Knutson, Ph.D.  
Planetary Science

Shrinivas R. Kulkarni, Ph.D.  
George Ellery Hale Professor of Astronomy and Planetary Science; Director, Caltech Optical Observatories

Michael P. Lamb, Ph.D.  
Geology

Nadia Lapusta, Ph.D.  
Lawrence A. Hanson, Jr. Professor of Mechanical Engineering and Geophysics

Jared R. Leadbetter, Ph.D.  
Environmental Microbiology

Dianne K. Newman, Ph.D.  
Gordon H. Binder/Amgen Professor of Biology and Geobiology

Victoria Orphan, Ph.D.  
James Irvine Professor of Environmental Science and Geobiology; Allen V. C. Davis and Lenabelle Davis Leadership Chair, Center for Microbial Interactions; Director, Center for Microbial Interactions

George R. Rossman, Ph.D.  
Professor of Mineralogy

Tapio Schneider, Ph.D.  
Theodore Y. Wu Professor of Environmental Science and Engineering; JPL Senior Research Scientist

Alex L. Sessions, Ph.D.  
Geobiology

Mark Simons, Ph.D.  
John W. and Herberta M. Miles Professor of Geophysics; Jet Propulsion Laboratory Chief Scientist

David J. Stevenson, Ph.D.  
Marvin L. Goldberger Professor of Planetary Science

Joann M. Stock, Ph.D.  
Geology and Geophysics

Edward M. Stolper, Ph.D., D.Sc.h.c.  
Robert Andrews Millikan Professor of Geology

Andrew F. Thompson, Ph.D.  
Environmental Science and Engineering

Michael M. Watkins, Ph.D.  
Aerospace and Geophysics; Director of JPL

Paul O. Wennberg, Ph.D.  
R. Stanton Avery Professor of Atmospheric Chemistry and Environmental Science and Engineering

Brian P. Wernicke, Ph.D.  
Chandler Family Professor of Geology

Yuk L. Yung, Ph.D.  
Planetary Science; Jet Propulsion Laboratory Senior Research Scientist

Assistant Professors

Claire Bucholz, Ph.D.  
Geology

Jörn Callies, Ph.D.  
Environmental Science and Engineering

Katherine de Kleer, Ph.D.  
Planetary Science

Zachary Ross, Ph.D.  
Geophysics

Francois Tissot, Ph.D.  
Geochemistry

Zhongwen Zhan, Ph.D.  
Geophysics

Lecturers

Nathan Dalleska  
Environmental Science and Engineering

Research Professor

Egill Hauksson, Ph.D.  
Geophysics

Allen Husker, Ph.D.  
Geophysics
Visiting Associates

Piyush Agram, Ph.D.
Geophysics

Elizabeth Cochran, Ph.D.
Geophysics

Abigail Fraeman, Ph.D.
Planetary Science

Matthew Golombek, Ph.D.
Planetary Science

Robert W. Graves, Ph.D.
Geophysics

John M. Harris, Ph.D.
Geology

Renyu Hu, Ph.D.
Planetary Science

Kenneth W. Hudnut, Ph.D.
Geophysics

Lucile M. Jones, Ph.D.
Geophysics

Patrice Klein, Ph.D.
Environmental Science and Engineering

Junjie Liu, Ph.D.
Environmental Science and Engineering

Yang Liu, Ph.D.
Geochemistry

Simone Marras, Ph.D.
Environmental Science and Engineering

Daniel J. McCleese, Ph.D.
Environmental Science & Engineering instead of Planetary Science

Charles Miller, Ph.D.
Environmental Science and Engineering

Vijay Natraj, Ph.D.
Planetary Science

Paul Nerenberg, Ph.D.
Planetary Science

Dimitri A. Papanastassiou, Ph.D.
Geochemistry

Paul Rosen, Ph.D.
Geophysics

Stanley P. Sander, Ph.D.
Planetary Science and Environmental Science and Engineering

Sue Smrekar, Ph.D.
Geophysics

Mark Swain, Ph.D.
Planetary Science

Joao Teixeira, Ph.D.
Environmental Science and Engineering

Geoffrey Toon, Ph.D.
Planetary Science

Victor Tsai, Ph.D.
Geophysics

Joan Valentine, Ph.D.
Geobiology

Paulo Vasconcelos, Ph.D.
Geochemistry

Duane Waliser, Ph.D.
Planetary Science

Kenneth Williford, Ph.D.
Geobiology

Howard Zebker, Ph.D.
Geophysics

Members of the Professional Staff

Michael B. Baker, Ph.D.
Geology

John R. Beckett, Ph.D.
Geology

Yunbin Guan, Ph.D.
Geochemistry

Chi Ma, Ph.D.
Geochemistry

Sally Newman, Ph.D.
Planetary Science

Postdoctoral Scholars

Thamer Alotaibi Aldaajani, Ph.D.
Geophysics

Stuart Bartlett, Ph.D.
Geochemistry

Juliette Becker, Ph.D.
Heising Simons Pegasi b Postdoctoral Scholar in Planetary Science

Melanie Bieli, Ph.D.
Environmental Science and Engineering
Ilya Bobrovskiy, Ph.D.
Texaco Prize Postdoctoral Scholar in Geobiology

Lisanne Braat, Ph.D.
Geology

Johannes Buchen, Ph.D.
Geophysics

Gerrit Budde, Ph.D.
Geochemistry

Benjamin Cardenas, Ph.D.
Geology

Christine Chen, Ph.D.
O.K. Earl Prize Postdoctoral Scholar in Geology

Antoine Cremiere, Ph.D.
Geobiology

Fei Dai, Ph.D.
Planetary Science

Luca Dal Zilio, Ph.D.
Geophysics

Sijia Dong, Ph.D.
Environmental Science and Engineering

Russell Doughty, Ph.D.
Environmental Science and Engineering

Danielle Draper, Ph.D.
Environmental Science and Engineering

Oliver Dunbar, Ph.D.
Environmental Science and Engineering

Stewart Edie, Ph.D.
Geobiology

Eryn Eitel, Ph.D.
Geobiology

Joseph Fitzgerald, Ph.D.
Foster and Coco Stanback Postdoctoral Scholar in Global Environmental Science

Manuel Florez Torres, Ph.D.
Geophysics

Jia He, Ph.D.
Environmental Science and Engineering

Elias Heimisson, Ph.D.
Geophysics

Jiashun Hu, Ph.D.
Geophysics

Zhengyu Huang, Ph.D.
Environmental Science and Engineering

Ery Hughes, Ph.D.
Geology

Vincent Humphrey, Ph.D.
Environmental Science and Engineering

Eugenia Hyung, Ph.D.
Geochemistry

Kyungjae Im, Ph.D.
Geology

Yamini Jangir, Ph.D.
Geobiology

Michael Kipp, Ph.D.
Geochemistry

Joshua Laughner, Ph.D.
Environmental Science and Engineering

Gen Li, Ph.D.
Geology

Qiuyi Li, Ph.D.
Geology

Zefeng Li, Ph.D.
Geophysics

Simon Lock, Ph.D.
Planetary Science

Xavier Mangenot, Ph.D.
Geochemistry

Christopher Mankovich, Ph.D.
Planetary Science

Christopher Milliner, Ph.D.
Planetary Science

Kimberly Moore, Ph.D.
Planetary Science

Elizabeth Niespolo, Ph.D.
Geochemistry

Lenka Novakova, Ph.D.
Environmental Science and Engineering

Sunyoung Park, Ph.D.
Texaco Prize Postdoctoral Scholar in Geophysics

Frank Pavia, Ph.D.
Foster and Coco Stanback Postdoctoral Scholar in Environmental Science and Engineering

Alon Philosof, Ph.D.
Geobiology
Tamara Pico, Ph.D.  
Geology

Ted Present, Ph.D.  
Geochemistry

Thea Ragon, Ph.D.  
Geophysics

Gerard Salter, Ph.D.  
Geology

Kriti Sharma, Ph.D.  
Geobiology

Zhaoyi Shen, Ph.D.  
Environmental Science and Engineering

Anirban Sinha, Ph.D.  
Environmental Science and Engineering

Benjamin Smith, Ph.D.  
Geology

Jonathan Smith, Ph.D.  
Geology

Jessica Spake, Ph.D.  
Heising Simons Pegasus b Postdoctoral Scholar in Planetary Science

Akshay Sridhar, Ph.D.  
Environmental Science and Engineering

Nathan Stein, Ph.D.  
Planetary Science

Shantong Sun, Ph.D.  
Environmental Science and Engineering

Xin Wang, Ph.D.  
Geophysics

Yujie Wang, Ph.D.  
Environmental Science and Engineering

Elise Wilkes, Ph.D.  
Geobiology

Earle Wilson, Ph.D.  
Environmental Science and Engineering

James Worthington, Ph.D.  
Barr Foundation Postdoc in Geology

Jinlong Wu, Ph.D.  
Environmental Science and Engineering

Wenbo Wu, Ph.D.  
Geophysics

Dien Wu  
Environmental Science and Engineering

Yunjun Zhang, Ph.D.  
Geophysics

Zhimeng Zhang, Ph.D.  
Planetary Science

Yujie Zheng, Ph.D.  
Geophysics

Visitors

Oded Aharonson, Ph.D.  
Planetary Science

Elena Amador-French, Ph.D.  
Planetary Science

Alexis Bloom, Ph.D.  
Environmental Science and Engineering

Hao Cao, Ph.D.  
Planetary Science

Max Coleman, Ph.D.  
Geochemistry

Katherine Dawson, Ph.D.  
Geobiology

Valerie Fox, Ph.D.  
Planetary Science

Shana Goffredi, Ph.D.  
Geobiology

Murthy Gudipati, Ph.D.  
Planetary Science

Jamshid Hassanzadeh, PhD.  
Geology

Amy Hofmann, Ph.D.  
Geochemistry

Gregory Holk, Ph.D.  
Geochemistry

Martha House, Ph.D.  
Geology

Robert Housley, Ph.D.  
Geochemistry

Andrew Klesh, Ph.D.  
Planetary Science

Atsuko Kobayashi, Ph.D.  
Geobiology

Cheng Li, Ph.D.  
Planetary Science

Trustees, Administration, Faculty
Fan-Chi Lin, Ph.D.
Geophysics

Zhu Liu, Ph.D.
Environmental Science and Engineering

Devin McPhillips, Ph.D.
Geology

Simon Cajetan Neubauer, Ph.D.
Geochemistry

Christopher Parkinson, Ph.D.
Planetary Science

Alexis Pasulka, Ph.D.
Geobiology

Maria Raguso, Ph.D.
Planetary Science

Haley Sapers, Ph.D.
Geobiology

Wolfgang Sturhahn, Ph.D.
Geophysics

Nancy Thomas, Ph.D.
Planetary Science

David Thompson, Ph.D.
Planetary Science

Gabriella Weiss, Ph.D.
Geobiology

Debra Wunch, Ph.D.
Environmental Science and Engineering

Jiani Yang, Ph.D.
Planetary Science

Qing Yue, Ph.D.
Planetary Science

Zhaocheng Zeng, Ph.D.
Planetary Science
DIVISION OF THE HUMANITIES AND SOCIAL SCIENCES

Jean-Laurent Rosenthal
Ronald and Maxine Linde Leadership Chair

Robert P. Sherman
Executive Officer for the Social Sciences

Christopher R. Hitchcock
Executive Officer for the Humanities

Professor Emeriti

John Brewer, Ph.D.
Eli and Edythe Broad Professor of History and Literature

David M. Grether, Ph.D.
Frank J. Gilloon Professor of Economics

Daniel J. Kevles, Ph.D.
J. O. and Juliette Koepfli Professor of the Humanities

J. Morgan Kousser, Ph.D.
History and Social Science

Jenijoy La Belle, Ph.D.
English

John O. Ledyard, Ph.D., D.Lit.h.c.
Allen and Lenabell Davis Professor of Economics and Social Sciences

Oscar Mandel, Ph.D.
Literature

Robert A. Rosenstone, Ph.D.
History

Thayer Scudder, Ph.D.
Anthropology

Annette J. Smith, Ph.D.
Literature

James F. Woodward, Ph.D.
J. O. and Juliette Koepfli Professor of the Humanities

Professors

Ralph Adolphs, Ph.D.
Bren Professor of Psychology, Neuroscience, and Biology; Allen V. C. Davis and Lenabell Davis Leadership Chair, Caltech Brain Imaging Center

Imaging Center; Director, Caltech Brain Imaging Center

Marina Agranov, Ph.D.
Economics

R. Michael Alvarez, Ph.D.
Political Science

Kim C. Border, Ph.D.
Economics

Warren C. Brown, Ph.D.
History

Jed Z. Buchwald, Ph.D.
Doris and Henry Dreyfuss Professor of History

Colin F. Camerer, Ph.D.
Robert Kirby Professor of Behavioral Economics; T&C Chen Center for Social and Decision Neuroscience Leadership Chair; Director, T&C Chen Center for Social and Decision Neuroscience

Jaksa Cvitanic, Ph.D.
Richard N. Merkin Professor of Mathematical Finance; Director, Ronald and Maxine Linde Institute of Economic and Management Sciences

Tracy K. Dennison, Ph.D.
History

Frederick Eberhardt, Ph.D.
Philosophy

Federico M. Echenique, Ph.D.
Allen and Lenabelle Davis Professor of Economics

Jean E. Ensminger, Ph.D.
Edie and Lew Wasserman Professor of Social Sciences

Michael J. Ewens, Ph.D.
Economics

Mordechai Feingold, Ph.D.
Kate Van Nuys Page Professor of the History of Science and the Humanities

Kevin M. Gilmartin, Ph.D.
William R. Kenan, Jr., Professor of English; Dean of Undergraduate Students

Dehn Gilmore, Ph.D.
English

Kristine L. Haugen, Ph.D.
English

Alexander V. Hirsch, Ph.D.
Political Science

Trustees, Administration, Faculty
Christopher R. Hitchcock, Ph.D.
J. O. and Juliette Koepfli Professor of Philosophy

Philip T. Hoffman, Ph.D.
Rea A. and Lela G. Axline Professor of Business Economics and History

Joceyln Holland, Ph.D.
German Studies

Brian R. Jacobson, Ph.D.
Critical Studies

Jennifer A. Jahner, Ph.D.
English

Catherine Jurca, Ph.D.
English

Jonathan N. Katz, Ph.D.
Kay Sugahara Professor of Social Sciences and Statistics

D. Roderick Kiewiet, Ph.D.
Political Science

Diana L. Kormos-Buchwald, Ph.D.
Robert M. Abbey Professor of History

John P. O’Doherty, Ph.D.
Psychology

Peter C. Ordeshock, Ph.D.
Political Science

Thomas R. Palfrey III, Ph.D.
Flintridge Foundation Professor of Economics and Political Science

George Pigman III, Ph.D.
English

Charles R. Plott, Ph.D.
Doctor of Letters, honoris causa
William D. Hacker Professor of Economics and Political Science

Steven R. Quartz, Ph.D.
Philosophy

Antonio Rangel, Ph.D.
Bing Professor of Neuroscience, Behavioral Biology, and Economics

Richard W. Roll, Ph.D.
Linde Institute Professor of Finance

Jean-Laurent Rosenthal, Ph.D.
Rea A. and Lela G. Axline Professor of Business Economics; Ronald and Maxine Linde Leadership Chair, Division of the Humanities and Social Sciences

Kota Saito, Ph.D.
Economics

Robert P. Sherman, Ph.D.
Economics and Statistics

Matthew S. Shum, Ph.D.
J. Stanley Johnson Professor of Economics

Charles D. Sprenger, Ph.D.
Economics

Omer Tamuz, Ph.D.
Economics

Cindy A. Weinstein, Ph.D.
Eli and Edythe Broad Professor of English

Nicolas Wey-Gomez, Ph.D.
History

Assistant Professors

Maura D. Dykstra, Ph.D.
History

Michael B. Gibilisco, Ph.D.
Political Science

Lawrence J. Jin, Ph.D.
Finance

Gabriel Lopez-Moctezuma, Ph.D.
Political Science

Dean Mobbs, Ph.D.
Psychology

Kirby Nielsen, Ph.D.
Economics

Luciano Pomatto, Ph.D.
Economics

Charles T. Sebens, Ph.D.
Philosophy

Danielle L. Wiggins, Ph.D.
History

Yi Xin, Ph.D.
Economics

Ahmanson Postdoctoral Instructor

Charles A. Kollmer, Ph.D.
History of Science

Caltech-Huntington Humanities Collaborations Postdoctoral Instructor

Jonathan Koch, Ph.D.
English
Fletcher Jones Postdoctoral Instructor

Julia M. Hori, Ph.D.
English

Jessen Postdoctoral Instructors

Mario Hubert, Ph.D.
Philosophy
Adam K. Pham, Ph.D.
Philosophy

Weisman Postdoctoral Instructor

Anne Sullivan, Ph.D.
English

Postdoctoral Instructor in Early Modern Natural Philosophy

Margaret Gaida, Ph.D.
History of Science, Medicine, and Technology

Lecturers

Andreas Aebi, Ph.D.
German
Bridget Alex, Ph.D.
Anthropology
Gloria Arjona, Ph.D.
Spanish
Juan Ceva, Engr.
Aeronautics and Astronautics
Christine M. Daley, Ph.D.
English
Jennifer L. Factor, M.F.A.
Literature and Creative Writing
Megumi Fujio, Ph.D.
Japanese
Daniel A. Garcia, M.A.
Spanish
Ritsuko Hirai Toner, Ph.D.
Japanese
Richard E. Kipling, M.A.
Journalism
Edan Lepucki, MFA
Fiction

Daniel Lewis, Ph.D.
History
Peter McAniff, M.B.A, J.D.
Finance
Trevor C. Merrill, Ph.D.
French
Feng-Ying Ming, Ph.D.
Chinese
Thomas A. Neenan, M.F.A.
Music
Christiane H. Orcel, Ph.D.
French
Elin O’Hara Slavick, M.F.A.
Photography
Sandy Rodriguez, B.F.A.
Art
Xiangyun Wang, Ph.D.
Chinese
Kenneth J. Winston, Ph.D.
Economics
Juliann K. Wolfgram, Ph.D.
Art History

Research Professor

Hillary Mushkin, MFA
Art and Design and Humanities and Social Sciences

Research Assistant Professors

Joshua Eisenthal, Ph.D.
Philosophy
Cindy Hagan, Ph.D.
Psychology
Jennifer L. Rodgers, Ph.D.
History

Teaching Professor

Susanne E. Hall, Ph.D.
Teaching Professor of Writing and Director of the Hixon Writing Center

Eleanor Searle Visiting Professor

Hanna Rose Shell, Ph.D.
History of Science

Trustees, Administration, Faculty
Visiting Professor

Steve Hindle, Ph.D.
History

Visiting Associates

Peter L. Bossaerts, Ph.D.
Finance

Erik M. Conway, Ph.D.
History

John L. Heilbron, Ph.D.
History

Jozsef Illy, Ph.D.
History

Sophia Kalantzakos, Ph.D.
Political Science and International Affairs

Dorit Kliemann, Ph.D.
Cognitive Neuroscience

Anne J. Kox, Ph.D.
History

Dennis Lehmkuhl, Ph.D.
Philosophy

Barbara B. Oberg, Ph.D.
History

Robert C. Ritchie, Ph.D.
History

Mary Elise Sarotte, Ph.D.
History

Tilman Sauer, Ph.D.
Theoretical Physics

Mark J. Schiefsky, Ph.D.
Philosophy

Jesse Schotter, Ph.D.
English

Wolfram Schultz, Ph.D.
Neuroscience

Damian Stanley, Ph.D.
Neuroeconomics

Noel M. Swerdlow, Ph.D.
History

Reza Tadayon Nejad, M.D., Ph.D.
Neuroscience

Anita Tusche, Ph.D.
Psychology

Visitors

Julien Dubois, Ph.D.
Neuroscience

Zhongzheng Fu, PhD
Control and Dynamical Systems

Laura Harrison, Ph.D.
Neuroscience

Toby Wise, Ph.D.
Neuroscience

Member of the Professional Staff

Ze'ev Rosenkranz, M.L.S.

Postdoctoral Scholars

Devdeepta Bose, Ph.D.
Psychology and Economics

Jian Cao, Ph.D.
Data Science and Election Integrity

Caroline J. Charpentier, Ph.D.
Neuroscience

Jeffrey A. Cockburn, Ph.D.
Neuroscience

Ayse Zeynep Enkavi, Ph.D.
Neuroeconomics

Kiyohito Iigaya, Ph.D.
Neuroscience

David Kahn, Ph.D.
Cognitive Neuroscience

Umit Keles, Ph.D.
Neuroscience

Lisa Kluen, Ph.D.
Neuroscience

Douglas Lee, Ph.D.
Neuroeconomics

Vincent Y. Man, Ph.D.
Neuroscience

Tanaz Molapour, Ph.D.
Computational Affective Neuroscience

Omar D. Perez, Ph.D.
Neuroscience

Joseph Root, Ph.D.
Economics

Nina Rouhani, Ph.D.
Neuroscience
Tessa Rusch, Ph.D.
Neuroscience

Sarah Tashjian, Ph.D.
Affective Neuroscience

Tomislav D. Zbozinek, Ph.D.
Affective Neuroscience
B. Thomas Soifer, Ph.D.
Harold Brown Professor of Physics

Kip S. Thorne, Ph.D., D.Sc.h.c., D.h.c., L.H.D.h.c., Nobel Laureate
Richard P. Feynman Professor of Theoretical Physics

Rochus E. Vogt, Ph.D.
R. Stanton Avery Distinguished Service Professor and Professor of Physics

David B. Wales, Ph.D.
Mathematics

Ward Whaling, Ph.D.
Physics

Richard M. Wilson, Ph.D.
Mathematics

Senior Research Associate Emeritus

Petr Vogel, Ph.D.
Physics

Professors

Rana Adhikari, Ph.D.
Physics

Jason Alicea, Ph.D.
Theoretical Physics

James J. Bock, Ph.D.
Physics

Fernando Guadalupe Dos Santos Lins Brandão, Ph.D.
Bren Professor of Theoretical Physics

Xie Chen, Ph.D.
Theoretical Physics

Yanbei Chen, Ph.D.
Physics

Clifford Cheung, Ph.D.
Theoretical Physics

David Conlon, Ph.D.
Mathematics

S. George Djorgovski, Ph.D.
Astronomy

Bradley W. Filippone, Ph.D.
Francis L. Moseley Professor of Physics

Matthias Flach, Ph.D.
Mathematics

Rupert Frank, Ph.D.
Mathematics

Sunit Golwala, Ph.D.
Physics

Thomas Graber, Ph.D.
Mathematics

Sergei Gukov, Ph.D.
Theoretical Physics and Mathematics

Gregg W. Hallinan, Ph.D.
Astronomy

Fiona A. Harrison, Ph.D., D.techn.h.c.
Harold A. Rosen Professor of Physics

Lynne Hillenbrand, Ph.D.
Astronomy

David G. Hitlin, Ph.D.
Physics

Philip F. Hopkins, Ph.D.
Theoretical Astrophysics

Andrew W. Howard, Ph.D.
Astronomy

David Hsieh, Ph.D.
Physics

Philip Isett, Ph.D.
Mathematics

Anton Kapustin, Ph.D.
Earle C. Anthony Professor of Theoretical Physics and Mathematics

Nets Katz, Ph.D.
International Business Machines Professor of Mathematics

Alexander S. Kechris, Ph.D., D.h.c.
Mathematics

H. Jeff Kimble, Ph.D., D.Sc.h.c.
William L. Valentine Professor of Physics

Alexei Kitaev, Ph.D.
Ronald and Maxine Linde Professor of Theoretical Physics & Mathematics

Shrinivas R. Kulkarni, Ph.D.
George Ellery Hale Professor of Astronomy and Planetary Science

Kenneth G. Libbrecht, Ph.D.
Physics

Nikolai G. Makarov, Ph.D.
Richard Merkin Distinguished Professor of Mathematics

Elena Mantovan, Ph.D.
Mathematics
James Fuller, Ph.D.
Theoretical Astrophysics

Nicholas R. Hutzler, Ph.D.,
Physics

Mansi M. Kasliwal, Ph.D.
Astronomy

Evan N. Kirby, Ph.D.
Astronomy

Vikram Ravi, Ph.D.
Astronomy

Instructors

Ioannis Angelopoulos, Ph.D.
Sherman Fairchild, Mathematics

Ashay Burungale, Ph.D.
Scott Russell Johnson, Mathematics

Justin Campbell, Ph.D.
Harry Bateman, Mathematics

Lei Chen, Ph.D.
Noether, Mathematics

Yesim Demiroglu, Ph.D.
Hearst, Mathematics

Alexander Dunn, Ph.D.
Olga Taussky & John Todd, Mathematics

Mikhail Karpukhin, Ph.D.
Harry Bateman, Mathematics

Kirill Lazebnik, Ph.D.
Mathematics

Aaron Mazel-Gee, Ph.D.
Sherman Fairchild Mathematics

Frédéric Ouimet, Ph.D.
Mathematics

Sarthak Parikh, Ph.D.
Mathematics

Jiewon Park, Ph.D.
Olga Taussky & John Todd, Mathematics

Peter Smillie, Ph.D.
Harry Bateman, Mathematics

Anna Szumowicz, Ph.D.
Harry Bateman, Mathematics

Zoltan Vidnyanszky, Ph.D.
Olga Taussky & John Todd, Mathematics

Lecturers

Eric D. Black, Ph.D.
Physics

Semra Demirel-Frank, Ph.D.
Mathematics

Sergi R. Hildebrandt, Ph.D.
Physics

Hien T. Nguyen, Ph.D.
Physics

Frank Rice, M.S.
Physics

Research Professors/
Senior Research Associates

Sean Carroll, Ph.D.
Physics

Bertrand Echenard, Ph.D.
Physics

Matthew Graham, Ph.D.
Astronomy

George Helou, Ph.D.
Physics

Richard A. Mewaldt, Ph.D.
Physics

Stephen Padin, Ph.D.
Physics

Michele Papucci, Ph.D.
Physics

David H. Reitze, Ph.D.
Physics

Jack Sayers, Ph.D.
Physics

Mark Scheel, Ph.D.
Physics

Daniel M. Silevitch, Ph.D.
Physics

Research Assistant Professors/
Senior Research Fellows

Javier Garcia, Ph.D.
Physics

Christopher Swank, Ph.D.
Physics

Si Xie, Ph.D.
Physics
### Senior Faculty Associates

- **Charles Beichman, Ph.D.**  
  *Astronomy*

- **Curt Cutler, Ph.D.**  
  *Physics*

### Faculty Associate

- **Todd Gaier, Ph.D.**  
  *Physics*

### Visiting Associates

- **James Bartlett, Ph.D.**  
  *Physics*

- **Charles Matt Bradford, Ph.D.**  
  *Physics*

- **James Breckinridge, Ph.D.**  
  *Astronomy*

- **Asantha Cooray, Ph.D.**  
  *Physics*

- **Abigail Crites, Ph.D.**  
  *Physics*

- **Clive Dickinson, Ph.D**  
  *Astronomy*

- **Olivier Doré, Ph.D.**  
  *Physics*

- **Richard Ellis, Ph.D.**  
  *Astronomy*

- **Yejun Feng, Ph.D.**  
  *Physics*

- **Chad Galley, Ph.D.**  
  *Physics*

- **Paul Goldsmith, Ph.D.**  
  *Physics*

- **Sergi R. Hildebrandt, Ph.D.**  
  *Physics*

- **Roy J. Holt, Ph.D.**  
  *Theoretical Physics*

- **Joseph W. Lazio, Ph.D.**  
  *Astronomy*

- **Patrick Lee, Ph.D.**  
  *Physics*

- **Walid Majid, Ph.D.**  
  *Physics*

- **Simona Mei, Ph.D.**  
  *Physics*

- **David Meier**  
  *Astronomy*

- **Massimo Meneghetti, Ph.D.**  
  *Physics*

- **Hien T. Nguyen, Ph.D.**  
  *Physics*

- **Shouleh Nikzad, Ph.D.**  
  *Physics*

- **Anamparambu N. Ramaprakash, Ph.D.**  
  *Astrophysics*

- **Michael Ramsey-Musolf, Ph.D.**  
  *Physics*

- **Graca Rocha, Ph.D.**  
  *Physics*

- **Andrés Romero-Wolf, Ph.D.**  
  *Astronomy*

- **John Elie Sader, Ph.D.**  
  *Physics*

- **Piotr Sulkowski, Ph.D.**  
  *Physics*

- **Kohji Tsumura, Ph.D.**  
  *Physics*

- **Michele Vallisneri, Ph.D.**  
  *Physics*

- **Sander Weinreb Ph.D.**  
  *Astronomy*

- **Michael Werner, Ph.D.**  
  *Astrophysics*

- **Mark E. Wiedenbeck, Ph.D.**  
  *Physics*

### Members of the Professional Staff

- **Rachel Akeson, Ph.D.**  
  *Stuart Anderson, Ph.D.*

- **Philip Appleton, Ph.D.**  
  *Jessica Arlett, Ph.D.*

- **Lee Armus, Ph.D.**  
  *Thomas Barlow, Ph.D.*

- **Bruce Berriman, Ph.D.**  
  *James Kent Blackburn, Ph.D.*

- **Andrew Boden, Ph.D.**  
  *Julian Bunn, Ph.D.*

- **Peter L. Capak, Ph.D.**  
  *Sean J. Carey, Ph.D.*

- **Robert Carr, M.Phil**  
  *Ranga Ram Chary, Ph.D.*

- **David R. Ciardi, Ph.D.**  
  *Kieran A. Cleary, Ph.D.*

- **Christina M. S. Cohen, Ph.D.**  
  *Walter R. Cook, Ph.D.*

- **Walter R. Cook, Ph.D.**
Historical Sketch

Dennis C. Coyne, M.S.
Alan C. Cummings, Ph.D.
Roc Cutri, Ph.D.
Richard Dekany, Ph.D.
Chung Wah (Warren) Fon, Ph.D.
Valery Frolov, Ph.D.
Joseph A. Giaime, Ph.D.
Carl Grillmair, Ph.D.
Eric K. Gustafson, Ph.D.
Keita Kawabe, Ph.D.
Davy Kirkpatrick, Ph.D.
Phillip Kerns, Ph.D.
Michael Landry, Ph.D.
Albert Lazzarini, Ph.D.
Janice Lee, Ph.D.
Richard A. Leske, Ph.D.
William Mahoney, Ph.D.
Keith Matthews, M.S.
Joseph Mazzarella, Ph.D.
Gregory Mendell, Ph.D.
Patrick Morris, Ph.D.
J. E. Brian O’Reilly, Ph.D.
Roberta Paladini, PhD.
Fredrick J. Raab, Ph.D.
Luisa M. Rebull, Ph.D.
Reed Riddle, Ph.D.
Norna A. Robertson, Ph.D.
Gary H. Sanders, Ph.D.
Richard Savage, Ph.D.
Patrick Shopbell, Ph.D.
David Shupe, Ph.D.
Daniel Sigg, Ph.D.
Nancy Silbermann, Ph.D.
Roger Smith, B.E.
Gordon Squires, Ph.D.
Harry Teplitz, Ph.D.
Schuyler Van Dyk, Ph.D.
Yun Wang, Ph.D.
David P. Woody, Ph.D.
Hiroaki Yamamoto, Ph.D.
Lin Yan, Ph.D.
Ren-Yuan Zhu, Ph.D.
Michael Zucker, Ph.D.
John Zweizig, Ph.D.

Senior Postdoctoral Scholars

Fabien Defrance, Ph.D.
Physics
Dexu Lin, Ph.D.
Physics
Jonathan Richardson, Ph.D.
Physics
Alessandro Schillaci, Ph.D.
Physics

Postdoctoral Scholars

Anahita Alavi, Ph.D.
Astronomy
Victor Albert, Ph.D.
Lee DuBridge, Theoretical Physics
Alina Aleksandrova, Ph.D.
Physics
Igor Andreoni, Ph.D.
Astronomy
Yuntao Bai, Ph.D.
Sherman Fairchild, Theoretical Physics
Ashley Baker, Ph.D.
51 Pegasi b, Astronomy
Ritoban Basu Thakur, Ph.D.
Physics
Paz Beniamini, Ph.D.
Theoretical Astrophysics
Bryce Bolin, Ph.D.
Astronomy
Clément Bonnerot, Ph.D.
Theoretical Astrophysics
McKinley Brumback, Ph.D.
Physics
Ilaria Caiazzo, Ph.D.
Theoretical Astrophysics
Maria Charisi, Ph.D.
Theoretical Astrophysics
Joonhee Choi, Ph.D.
Physics
Liam Connor, Ph.D.
Tolman, Astronomy
Riley Connors, Ph.D.
Physics
Behnam Darvish Sarvestani, Ph.D.
Physics
Derek Davis, Ph.D.
Physics
Nils Deppe, Ph.D.
Sherman Fairchild, Theoretical Astrophysics
Sinan Deger, Ph.D.
Astronomy
Jérôme Deprince, Ph.D.
Physics
Yehonathan Drori, Ph.D.
Physics

Physics, Mathematics and Astronomy
Arpit Dua, Ph.D.
IQIM, Theoretical Physics

Hannah Earnshaw, Ph.D.
Physics

Tega Edo, Ph.D.
Physics

Iliya Esin, Ph.D.
Theoretical Physics

Ulf Christoffer Fremling, Ph.D.
Astronomy

Pradip Gatkine, Ph.D.
David & Ellen Lee, Astronomy

Tuvia Gefen, Ph.D.
Theoretical Physics

Hrant Gharibyan, Ph.D.
Theoretical Physics

Sepehr Ghazi Nezami, Ph.D.
Theoretical Physics

Andras Gilyen, Ph.D.
Theoretical Physics

Daniel Goldstein, Ph.D.
Hubble, Physics

Yingfei Gu, Ph.D.
IFQ, Theoretical Physics

Kevin Hardegree-Ullman, Ph.D.
Astronomy

François Hebert, Ph.D.
Theoretical Astrophysics

Chen Heinrich, Ph.D.
Physics

Andreas Helset, Ph.D.
Sherman Fairchild, Theoretical Physics

Keri Hoadley, Ph.D.
David & Ellen Lee, Physics

Po-Shen Hsin, Ph.D.
Theoretical Physics

Howard Hui, Ph.D.
Physics

Cameron Hummels, Ph.D.
Theoretical Astrophysics

Alexander Jahn, Ph.D.
IQIM, Theoretical Physics

Amruta Jaodand, Ph.D.
Physics

Suoqing Ji, Ph.D.
Sherman Fairchild, Theoretical Astrophysics

Fangzhou Jiang, Ph.D.
Troesh, Theoretical Astrophysics

Jae Hwan Kang, Ph.D.
Physics

Monica Kang, Ph.D.
Sherman Fairchild, Theoretical Physics

James Kent, Ph.D.
Astronomy

Junhan Kim, Ph.D.
Robert A. Millikan, Physics

Natalie Klco, Ph.D.
Sherman Fairchild, Theoretical Physics

Kyle Kremer, Ph.D.
NSF, Theoretical Astrophysics

Piotr Kucharski, Ph.D.
Theoretical Physics

Michael Kuhn, Ph.D.
Astronomy

Simon Larson, Ph.D.
Mathematics

Anthony LaTorre, Ph.D.
David & Ellen Lee, Physics

Nikolai Lauk, Ph.D.
Physics

Kirill Lazebnik, Ph.D.
Mathematics

Shing Chi Leung, Ph.D.
Theoretical Astrophysics

Cyprian Lewandowski, Ph.D.
Moore, Theoretical Physics

Dongzi Li, Ph.D.
Sherman Fairchild, Astronomy

Xiang Li, Ph.D.
Physics

Xinwei Li, Ph.D.
Troesh, Physics

Nan Lu, Ph.D.
Physics

Wenbin Lu, Ph.D.
David & Ellen Lee, Theoretical Astrophysics

Xingsheng Luan, Ph.D.
Physics

Angelo Lucia, Ph.D.
Sherman Fairchild, Theoretical Physics

Renee Ludlam, Ph.D.
Einstein, Physics
Michael Lund, Ph.D.  
Astronomy

Ryan Magee, Ph.D.  
Physics

Gugliemo Mastroserio, Ph.D.  
Physics

Saeed Mehraban, Ph.D.  
IQIM, Theoretical Physics

David Meltzer, Ph.D.  
Sherman Fairchild, Theoretical Physics

Sophie Middleton, Ph.D.  
Physics

Ashley Milsted, Ph.D.  
Theoretical Physics

Andrea Mitridate, Ph.D.  
Theoretical Physics

Kunal Mooley, Ph.D.  
Astronomy

Sanjay Moudgalya, Ph.D.  
Sherman Fairchild, Theoretical Physics

Jordan Moxon, Ph.D.  
Theoretical Astrophysics

Przemyslaw Mroz, Ph.D.  
Astronomy

Clara Murgui Galvez, Ph.D.  
Sherman Fairchild, Theoretical Physics

Khadijeh Najafi, Ph.D.  
Physics

Masayuki Nakana, Ph.D.  
Physics

Adam Neumann, Ph.D.  
Physics

Jennifer Ngadiuba, Ph.D.  
Robert A. Millikan, Physics

Donal O'Sullivan, Ph.D.  
Physics

Frédéric Ouimet, Ph.D.  
Mathematics

Georgia Panopoulou, Ph.D.  
Hubble, Theoretical Astrophysics

Sarthak Parikh, Ph.D.  
Mathematics

Julio Parra-Martinez, Ph.D.  
Sherman Fairchild, Theoretical Physics

Vinand Prayag, Ph.D.  
Astronomy

Zhongzhong Qin, Ph.D.  
Physics

Karthik Ramanathan, Ph.D.  
Troesh, Physics

Ewa Rej, Ph.D.  
Troesh, Physics

Bin Ren, Ph.D.  
Astronomy

Arianna Renzini, Ph.D.  
Physics

Jean-Baptiste Ruffio, Ph.D.  
David & Ellen Lee, Astronomy

Francisco Salces Carcoba, Ph.D.  
Barish-Weiss, Physics

Kyle Seyler, Ph.D.  
Robert A. Millikan, Physics

Jun Shi, Ph.D.  
Astronomy

Shibo Shu, Ph.D.  
Physics

Dana Simard, Ph.D.  
Theoretical Astrophysics

Ashmeet Singh, Ph.D.  
Physics

Kevin Slagle, Ph.D.  
Sherman Fairchild, Theoretical Physics

Yuan Su, Ph.D.  
IQIM, Theoretical Physics

Colm Talbot, Ph.D.  
Physics

Alex Thomson, Ph.D.  
Sherman Fairchild, Theoretical Physics

Uzgil Bade, Ph.D.  
Astronomy

Raju Valivarthi, Ph.D.  
Physics

Zoya Vallari, Ph.D.  
Physics

Joannes van Roestel, Ph.D.  
Physics

Jason Wang, Ph.D.  
51 Pegasi b, Astronomy

Xin Wang, Ph.D.  
Astronomy

Xin Xie, Ph.D.  
IQIM, Theoretical Physics

Physics, Mathematics and Astronomy
Hang Yu, Ph.D.  
*Sherman Fairchild, Physics*

Zhongxu Zhai, Ph.D.  
*Astronomy*

Kevin Zhang, Ph.D.  
*Theoretical Physics*

Pengfei Zhang, Ph.D.  
*Sherman Fairchild, Theoretical Physics*
JET PROPULSION LABORATORY

Administered by Caltech for the National Aeronautics and Space Administration

Michael Watkins, Director
Larry D. James, Deputy Director

Executive Council

Charles W. Whetsel
Director for Engineering and Science

Richard Cook
Associate Director for Flight Projects and Mission Success

James E. Graf
Director for Earth Science and Technology

René Fradet
Chief Financial Officer and Director for Business Operations

David Gallagher
Associate Director for Strategy, Technology and Formulation

Michael Greene
Director for Communications and Education

Cozette M. Hart
Director for Human Resources

Sammy A. Kayali
Director for Safety and Mission Success

Fuk K. Li
Manager, Mars Exploration Program Office and Director for Mars Exploration

Leslie L. Livesay
Director for Astronomy and Physics

Mark Simons
Chief Scientist

Suzanne Dodd
Director for Interplanetary Network

James J. Rinaldi
Chief Information Officer and Director for Information Technology

Jennifer Lum
Caltech General Counsel

Keyur Patel
Acting Director for Solar System Exploration

Fred Hadaegh
Chief Technologist
OFFICERS AND FACULTY

University of California = UC Berkeley
California State University = Cal State L.A.

Thomas F Rosenbaum, Ph.D.,
President; Sonja and William Davidow
Presidential Chair; Professor of Physics
A.B., Harvard College, 1977; M.A.,
Princeton University, 1979; Ph.D.,

John N Abelson, Ph.D.,
George Beadle Professor of Biology,
Emeritus
B.S., Washington State University,
1960; Ph.D., Johns Hopkins University,
1965. Professor, Caltech, 1982-91;
Beadle Professor, 1991-2002; Beadle
Professor Emeritus, 2002-. Chair,
Division of Biology, 1989-95.

Yaser Abu-Mostafa, Ph.D.,
Professor of Electrical Engineering and
Computer Science
B.Sc., Cairo University, 1979; M.S.E.E.,
Georgia Institute of Technology, 1981;
Ph.D., Caltech, 1983. Garrett Research
Fellow in Electrical Engineering, 1983;
Assistant Professor, 1983-89; Associate
Professor, 1989-94; Professor, 1994-.

Rana Adhikari, Ph.D.,
Professor of Physics
B.S., University of Florida (Gainesville),
1998; Ph.D., Massachusetts Institute of
Technology, 2004. Assistant Professor,
Caltech, 2006-12; Professor, 2012-.

Jess F Adkins, Ph.D.,
Smits Family Professor of Geochemistry
and Global Environmental Science
B.S., Haverford College, 1990; Ph.D.,
Massachusetts Institute of Technol-
y, 1998. Assistant Professor, Caltech,
2000-06; Associate Professor, 2006-10;
Professor, 2010-16; Smits
Professor, 2017-.

Ralph Adolphe, Ph.D.,
Bren Professor of Psychology, Neuro-
sience, and Biology; Allen V. C. Davis
and Lenabelle Davis Leadership Chair,
Caltech Brain Imaging Center; Director,
Caltech Brain Imaging Center
B.S., Stanford University, 1986; M.S.,
1986; Ph.D., Caltech, 1993. Professor
of Psychology and Neuroscience,
2004-05; Bren Professor, 2005-;
Professor of Biology, 2005-17; Davis
Leadership Chair, 2017--; Director,
Caltech Brain Imaging Center, 2008-13
and 2017-.

Andreas Aebi
Lecturer in German
M.A., University of Southern California,
1970; Ph.D., 1974. Lecturer in French,
Caltech, 1978; Lecturer in German,
1978-83; 1986--; Instructor in German,

Theodor Agapie, Ph.D.,
Professor of Chemistry
B.S., Massachusetts Institute of Tech-
nology, 2001; Ph.D., Caltech, 2007.
Assistant Professor, Caltech, 2009-14;
Professor, 2014-.

Piyush S Agram
Visiting Associate in Geophysics
B.Tech., Indian Institute of Technol-
ogy of Madras, 2004; M.S., Stanford
University, 2006; Ph.D., 2010. Caltech,

Marina Agranov, Ph.D.,
Professor of Economics
B.A., St. Petersburg State Technical
University, 1999; M.A., Tel Aviv Univer-
sity, 2004; Ph.D., New York University,
2010. Assistant Professor, Caltech,
2010-17; Professor, 2017-.

Channing C Ahn
Lecturer in Applied Physics and
Materials Science
B.S., University of California, 1979;
M.S., 1981; Ph.D., University of Bristol,
1985. Senior Research Fellow, Caltech,
1987-92; Senior Research Associate,
1992-2014; Lecturer, 1988; 1990-2009;

Arden L Albee, Ph.D.,
Professor of Geology and Planetary
Science, Emeritus
A.B., Harvard College, 1950; A.M.,
Harvard University, 1951; Ph.D., 1957.
Visiting Assistant Professor, Caltech,
1959-60; Associate Professor of
Geology, 1960-66; Professor, 1966-99;
Professor of Geology and Plane-
tary Science, 1999-2002; Professor
Emeritus, 2002-; Academic Officer,
Geological and Planetary Sciences,
1971-79; Chief Scientist, Jet Propul-
sion Laboratory, 1979-84; Dean of

Bridget A Alex
Lecturer in Anthropology
B.A., Dartmouth College, 2008; M.A.,
Harvard University, 2012; Ph.D., 2016.
Caltech, 2019.
Jason Alicea, Ph.D.
Professor of Theoretical Physics,
B.S., University of Florida, 2001;
M.A., University of California (Santa Barbara), 2005; Ph.D., 2007. Associate Professor, Caltech, 2012-15; Professor, 2015-.

Clarence R Allen, Ph.D.
Professor of Geology and Geophysics, Emeritus
B.A., Reed College, 1949; M.S., Caltech, 1951; Ph.D., 1954. Assistant Professor, 1955-59; Associate Professor, 1959-64; Professor, 1964-90; Professor Emeritus, 1990-. Interim Director, Seismological Laboratory, 1965-67; Acting Chairman, Division of Geology, 1967-68.

John M Allman, Ph.D.
Frank P. Hixon Professor of Neurobiology
B.A., University of Virginia, 1965; A.M., University of Chicago, 1968; Ph.D., 1971. Assistant Professor, Caltech, 1974-77; Associate Professor, 1977-84; Professor, 1984-89; Hixon Professor, 1989-.

R M Alvarez, Ph.D.
Professor of Political and Computational Social Science
B.A., Carleton College, 1986; M.A., Duke University, 1990; Ph.D., 1992. Assistant Professor, Caltech, 1992-95; Associate Professor, 1995-2002; Professor, 2002-.

Aaron D Ames, Ph.D.
Bren Professor of Mechanical and Civil Engineering and Control and Dynamical Systems
B.S., University of St. Thomas, 2001; B.A., University of St. Thomas, 2001; M.A., University of California, Berkeley, 2006; Ph.D., 2006. Lecturer, Caltech, 2007; Professor, 2017; Bren Professor, 2017-.

Qi An
Visiting Associate in Chemistry

Animashree (Anima Anandkumar) Anandkumar Ph.D.
Bren Professor of Computing and Mathematical Sciences
B.S., Indian Institutes of Technology, 2004; Ph.D., Cornell University, 2009; Visiting Associate, Caltech, 2017; Bren Professor, 2017-.

Richard A Andersen, Ph.D.
James G. Boswell Professor of Neuroscience; T&C Chen Brain-Machine Interface Center Leadership Chair; Director, T&C Brain-Machine Interface Center
B.S., University of California (Davis), 1973; Ph.D., University of California (San Francisco), 1979. Boswell Professor, Caltech, 1993-; Chen Brain-Machine Interface Center Leadership Chair, 2017-; Director, 2017-.

David J Anderson, Ph.D.
Seymour Benzer Professor of Biology; Tianqiao and Chrissy Chen Institute for Neuroscience Leadership Chair; Investigator, Howard Hughes Medical Institute; Director, Tianqiao and Chrissy Chen Institute for Neuroscience
A.B., Harvard University, 1978; Ph.D., Rockefeller University, 1983. Assistant Professor, Caltech, 1986-92; Associate Professor, 1992-96; Professor, 1996-2004; Roger W. Sperry Professor, 2004-09; Benzer Professor, 2009-; Chen Institute for Neuroscience Leadership Chair, 2017-; HHMI Investigator, 1989-; Director, 2017-.

Matthew J Anderson
Lecturer in Mechanical and Civil Engineering

Jose E Andrade, Ph.D.
George W. Housner Professor of Civil and Mechanical Engineering; Cecil and Sally Drinkward Leadership Chair, Department of Mechanical and Civil Engineering; Executive Officer for Mechanical and Civil Engineering
B.S., Florida Institute of Technology, 2001; M.S., Stanford University, 2003; Ph.D, 2006. Assistant Professor, Caltech, 2010; Associate Professor, 2010-13; Professor, 2013-17; Housner Professor, 2017-; Drinkward Leadership Chair, Department of Mechanical and Civil Engineering, 2017-; Executive Officer, 2016-.

Ioannis (Yannis) Angelopoulos
Sherman Fairchild Research Assistant Professor of Mathematics

Fred C Anson, Ph.D., D.h.c.
Elizabeth W. Gilloon Professor of Chemistry, Emeritus
B.S., Caltech, 1954; Ph.D., Harvard
University, 1957; D.h.c., University of Paris VII, 1993. Instructor, Caltech, 1957-58; Assistant Professor, 1958-62; Associate Professor, 1962-68; Professor, 1968-95; Gilloon Professor, 1995-2001; Gilloon Professor Emeritus 2001-. Executive Officer for Chemistry, 1973-77; Chairman, Division of Chemistry and Chemical Engineering, 1984-94.

Dimitrios Antsos
Lecturer in Electrical Engineering

Alexei Aravin, Ph.D.
Professor of Biology
B.S., University of Moscow, 1997; M.Sc., 1998; Ph.D., 2002. Assistant Professor, Caltech, 2009-16; Professor, 2016-.

Maria del Pilar (Pilar Ariza) Ariza Moreno
Visiting Associate in Aerospace
M.S., University of Seville, 1997; Ph.D., 2002. Assistant Professor, 2003-.

Gloria Arjona
Lecturer in Spanish
B.A., California State University, 1993; M.A., University of Southern California, 1997; Ph.D., 2002. Caltech, 2000-.

Frances H Arnold Ph.D.,
Nobel Laureate D.h.c.
Linus Pauling Professor of Chemical Engineering, Bioengineering and Biochemistry; Director, Donna and Benjamin M. Rosen Bioengineering Center
B.S., Princeton University, 1979; Ph.D., University of California, 1985; D.h.c., Stockholm University. Visiting Associate, Caltech, 1986; Assistant Professor, 1987-92; Associate Professor, 1992-96; Professor, 1996-99; Professor of Chemical Engineering and Biochemistry, 1999-2000. Dickinson Professor, 2000-17; Pauling Professor, 2017-; Director, Rosen Bioengineering Center, 2013-.

Daniel T Arthur
Visiting Associate in Mechanical and Civil Engineering

Clare V Baker
*Visiting Associate in Biology and Biological Engineering*

John D Baldeschwieler, Ph.D.
*J. Stanley Johnson Professor and Professor of Chemistry, Emeritus*
B.Chem.E., Cornell University, 1956; Ph.D., University of California, 1959. Professor, Caltech, 1973-96; Johnson Professor and Professor of Chemistry, 1996-99; Johnson Professor and Professor Emeritus, 1999--; Chairman, Division of Chemistry and Chemical Engineering, 1973-78.

David Baltimore, Ph.D.
*Nobel Laureate, D.Sc.h.c., D.Phil.h.c. President Emeritus; Robert Andrews Millikan Professor of Biology*
B.A., Swarthmore College, 1960; Ph.D., Rockefeller University, 1964; D.Sc.h.c., Swarthmore College; Mount Holyoke College; Mount Sinai Medical Center; Bard College; University of Helsinki; Cold Spring Harbor Laboratory; University of Alabama; California Polytechnic State University; Columbia University; Yale University; Rockefeller University; Harvard University; D.Phil.h.c., Weizmann Institute of Science. Professor, Caltech, 1997-2006; Millikan Professor, 2006--; President, 1997-2006, President Emeritus, 2006--.

Barry C Barish, Ph.D.,
*Nobel Laureate, Laurea h.c.*
Ronald and Maxine Linde Professor of Physics, Emeritus
B.A., University of California, 1957; Ph.D., 1962; Laurea, h.c., University of Bologna. Research Fellow, Caltech, 1963-66; Assistant Professor, 1966-69; Associate Professor, 1969-72; Professor, 1972-91; Linde Professor, 1991-2005; Linde Professor Emeritus, 2005--; Principal Investigator of LIGO, 1994-97; Director, LIGO, 1997-2006.

Alan H (Al) Barr, Ph.D.
*Professor of Computer Science*
Research Fellow, Caltech, 1984; Assistant Professor, 1984-90; Associate Professor, 1990-98; Professor, 1998--; Executive Officer for Computer Science, 2000-01.

James G Bartlett
*Visiting Associate in Physics*

Jacqueline K Barton, Ph.D., D.Sc.h.c., D.L.h.c.
*John G. Kirkwood and Arthur A. Noyes Professor of Chemistry*
A.B., Barnard College, 1974; Ph.D., Columbia University, 1978; D.Sc.h.c., New Jersey Institute; Kenyon College; Yale University; Hamilton College; Williams College; Lawrence University; Columbia University; D.L.h.c., Skidmore College. Visiting Associate, Caltech, 1989; Professor, 1989-97; Hanisch Professor, 1997-17; Kirkwood-Noyes Professor, 2017--; Division Chair, 2009-19; Davidson Leadership Chair, 2016-19.

Konstantin Batygin, Ph.D.
*Professor of Planetary Science*
B.S., UC Santa Cruz, 2008; M.S., California Institute of Technology, 2010; Ph.D., 2012. Assistant Professor, Caltech, 2014-19; Van Nuyes Page Scholar, 2017-19, Professor, 2019-.

Jesse L (Jack) Beauchamp, Ph.D.
*Mary and Charles Ferkel Professor of Chemistry*
B.S., Caltech, 1964; Ph.D., Harvard University, 1967. Noyes Research Instructor, Caltech, 1967-69; Assistant Professor, 1969-71; Associate Professor, 1971-74; Professor, 1974-2000; Ferkel Professor, 2000--.

James L (Jim) Beck, Ph.D.
*George W. Housner Professor of Engineering and Applied Science, Emeritus*

Charles Beichman
*Senior Faculty Associate in Astronomy*
Josette Bellan
Visiting Associate in Mechanical and Civil Engineering

Paul M Bellan, Ph.D.
Professor of Applied Physics
B.Sc., University of Manitoba, 1970; M.A., Princeton University, 1972; Ph.D., 1976. Assistant Professor, Caltech, 1977-83; Associate Professor, 1983-89; Professor, 1990-.

John E Bercaw, Ph.D.
Centennial Professor of Chemistry, Emeritus
B.S., North Carolina State University, 1967; Ph.D., University of Michigan, 1971. Arthur Amos Noyes Research Fellow, Caltech, 1972-74; Assistant Professor, 1974-77; Associate Professor, 1977-79; Professor, 1979-93; Shell Distinguished Professor, 1985-90; Centennial Professor, 1993-15; Centennial Professor, Emeritus, 2015-.

Marco Bernardi, Ph.D.
Assistant Professor of Applied Physics and Materials Science
B.S., University of Rome La Sapienza, 2004; M.S., University of Rome Tor Vergata, 2008; Ph.D., Massachusetts Institute of Technology, 2013. Caltech, 2015-.

Harsha S Bhat
Visiting Associate in Aerospace

Kaushik Bhattacharya, Ph.D.
Howell N. Tyson, Sr., Professor of Mechanics and Materials Science; Vice Provost
B.Tech., Indian Institute of Technology, 1986; Ph.D., University of Minnesota, 1991. Assistant Professor, Caltech, 1993-99; Associate Professor, 1999-2000; Professor, 2000-10; Tyson, Sr., Professor, 2010-; Executive Officer, 2007-16; Vice Provost, 2016-.

Kathryn Bikle
Lecturer in Chemistry

Pamela J Bjorkman, Ph.D.
David Baltimore Professor of Biology and Bioengineering
B.A., University of Oregon, 1978; Ph.D., Harvard University, 1984. Assistant Professor, Caltech, 1989-95; Associate Professor, 1995-98; Professor, 1998-2004; Delbruck Professor, 2004-15; Centennial Professor, 2015-18; HHMI Investigator, 1989-2015; Executive Officer for Biology, 2000-06; Baltimore Professor, 2018-.

Geoffrey A (Geoff) Blake, Ph.D.
Professor of Cosmochemistry and Planetary Sciences and Professor of Chemistry
B.S., Duke University, 1981; Ph.D., Caltech, 1986. Assistant Professor of Cosmochemistry, 1987-93; Associate Professor of Cosmochemistry and Planetary Sciences, 1993-97; Professor, 1997-99; Professor of Cosmochemistry and Planetary Sciences and Professor of Chemistry, 1999-. Deputy Director, Owens Valley Radio Observatory, 2000-06; Master of Student Houses, 2009-14.

Adam Blank
Teaching Assistant Professor of Computing and Mathematical Sciences
B.S., Carnegie Mellon University, 2012; M.S., 2014. Lecturer in Computing and Mathematical Sciences, 2018-2020; Teaching Assistant Professor of Computing and Mathematical Science, 2020-.

Guillaume Blanquart, Ph.D.
Professor of Mechanical Engineering
B.S., M.S., Ecole Polytechnique, 2002; M.S., Stanford University, 2004; Ph.D., 2008; Assistant Professor, Caltech, 2009-15; Professor, 2015-.

James J (Jamie) Bock, Ph.D.
Professor of Physics; Jet Propulsion Laboratory Senior Research Scientist
B.S., Duke University, 1987; M.A., University of California, Berkeley, 1990; Ph.D., 1994. Jet Propulsion Laboratory Research Scientist, 1994-2012; Visiting Associate, Caltech, 1994-2008; Senior Faculty Associate, 2008-12; Professor,
Charles M (Matt) Bradford
Visiting Associate in Physics

John F Brady, Ph.D.
Chevron Professor of Chemical Engineering and Mechanical Engineering
B.S., University of Pennsylvania, 1975; M.S., Stanford University, 1977; Ph.D., 1981. Associate Professor, Caltech, 1985-89; Professor, 1990-99; Chevron Professor, 1999-. Professor of Mechanical Engineering, 2005-. Executive Officer for Chemical Engineering, 1993-99; 2013-19.

Fernando Brandao, Ph.D.
Bren Professor of Theoretical Physics
B.Sc., Universidade Federal de Minas Gerais, 2004; M.Sc., 2005; Ph.D. Imperial College London, 2008. Bren Professor, Caltech, 2016-.

Robert D (Bobby) Braun, Ph.D.
Professor of Aerospace
B.S., Pennsylvania State University, 1987; M.S., George Washington University, 1989; Ph.D., Stanford University, 1996. Moore Distinguished Scholar, Caltech, 2015; Professor, 2020-.

Amy J Braverman
Visiting Associate in Computing and Mathematical Sciences

James B (Jim) Breckinridge
Visiting Associate in Astronomy

Lindsay R Brenner
Lecturer in Biology and Biological Engineering

Christopher E Brennen, D.Phil.
Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering, Emeritus
John Brewer, Ph.D.
Eli and Edythe Broad Professor of History and Literature, Emeritus
B.A., University of Cambridge, 1968; M.A., 1972; Ph.D., 1973; M.A. Honorary Degree, Harvard University. Moore Distinguished Scholar, Caltech, 2001; Professor, 2002--; Broad Professor, 2003-16; Broad Professor, Emeritus, 2017-.

William B Bridges, Ph.D.
Carl F Braun Professor of Engineering, Emeritus

Alaina A Brinley
Visiting Associate in Electrical Engineering
B.A., Kalamazoo College, 2007; Ph.D., University of Texas Southwestern Medical Center, 2012; M.D., 2016; Caltech, 2016-20.

Charles J Brokaw, Ph.D.
Professor of Biology, Emeritus
B.S., Caltech, 1955; Ph.D., University of Cambridge, 1958. Visiting Assistant Professor, Caltech, 1960; Assistant Professor, 1961-63; Associate Professor, 1963-68; Professor, 1968-2000; Professor Emeritus, 2000-. Executive Officer for Biology, 1976-80; 1985-89; Associate Chairman of the Division of Biology, 1980-85.

Marianne Bronner, Ph.D.
Albert Billings Ruddock Professor of Biology; Director of the Beckman Institute
Sc.B., Brown University, 1975; Ph.D., Johns Hopkins University, 1979. Professor, Caltech, 1996-2000; Ruddock Professor, 2000--; Executive Officer, 2013-16; Director, 2019-.

Norman H Brooks, Ph.D.
James Irvine Professor of Environmental and Civil Engineering, Emeritus
A.B., Harvard College, 1949; M.S., Harvard University, 1950; Ph.D., Caltech, 1954. Instructor in Civil Engineering, 1953-54; Assistant Professor, 1954-58; Associate Professor, 1958-62; Professor, 1962-70; Professor of Environmental Science and Civil Engineering, 1970-76; Irvine Professor of Environmental Engineering Science, 1976-77; Irvine Professor of Environmental Engineering and Civil Engineering 1977-95; Irvine Professor Emeritus, 1995-.; Academic Officer for Environmental Engineering Science, 1972-74; Director, Environmental Quality Laboratory, 1974-93; Executive Officer for Environmental Engineering Science, 1985-93.

Michael E (Mike) Brown, Ph.D.
Richard and Barbara Rosenberg Professor of Planetary Astronomy; Director, Caltech Center for Comparative Planetary Evolution
A.B., Princeton University, 1987; M.A., University of California, 1990; Ph.D., 1994. Visiting Associate, Caltech, 1995; Assistant Professor, 1997-2002; Associate Professor, 2002-04; Professor, 2005-2008; Rosenberg Professor, 2008--; Director, 2020-.

Warren C Brown, Ph.D.
Professor of History
B.S., Tufts University, 1985; M.A., University of Cincinnati, 1993; Ph.D., University of California (Los Angeles), 1997. Assistant Professor, Caltech 1997-2003; Associate Professor, 2003-10; Professor, 2010-.

Jehoshua (Shuki) Bruck, Ph.D.
Gordon and Betty Moore Professor of Computation and Neural Systems and Electrical Engineering

Oscar P Bruno, Ph.D.
Professor of Applied and Computational Mathematics
Lic., University of Buenos Aires, 1982; Ph.D., New York University (Courant Institute of Mathematical Sciences), 1989. Associate Professor, Caltech, 1995-98; Professor, 1998-; Execu-
Claire E Bucholz, Ph.D.
Assistant Professor of Geology
B.S., Yale University, 2009; Ph. D., Massachusetts Institute of Technology, 2016; Caltech, 2017-.

Jed Z Buchwald, Ph.D.
Doris and Henry Dreyfuss Professor of History

Joel W Burdick, Ph.D.
Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering and Bioengineering; Jet Propulsion Laboratory Research Scientist
B.S., Duke University, 1981; M.S., Stanford University, 1982; Ph.D., 1988. Assistant Professor, Caltech, 1988-94; Associate Professor, 1994-2000; Professor of Mechanical Engineering, 2000-02; Professor of Mechanical Engineering and Bioengineering, 2002-12; Executive Officer for Bioengineering, 2006-07; Hayman Professor, 2012-; Jet Propulsion Laboratory Research Scientist, 2014-.

Donald S Burnett, Ph.D.
Professor of Nuclear Geochemistry, Emeritus
B.S., University of Chicago, 1959; Ph.D., University of California, 1963. Research Fellow in Physics, Caltech, 1963-65; Assistant Professor of Nuclear Geochemistry, 1965-68; Associate Professor, 1968-75; Professor, 1975-2006; Professor Emeritus, 2006-. Academic Officer, Division of Geological and Planetary Sciences, 1979-87.

Ashay Burungale
Scott Russell Johnson Research Assistant Professor of Mathematics

Gentian Buzi
Visiting Associate in Computing and Mathematical Sciences

Long Cai, Ph.D.
Professor of Biology and Biological Engineering
B.A, Harvard University, 2001; Ph.D., 2006. Visiting Associate 2017-18; Assistant Professor, Caltech, 2010-17; Research Professor, 2017-2018; Professor, 2018-.

Joern Callies, Ph.D.
Assistant Professor of Environmental Science and Engineering
M.S., University of Hamburg, Germany, 2011; Ph.D., Massachusetts Institute of Technology, 2015. Caltech, 2017-.

Colin F Camerer, Ph.D.
Robert Kirby Professor of Behavioral Economics; T&C Chen Center for Social and Decision Neuroscience Leadership Chair; Director T&C Chen Center for Social and Decision Neuroscience
B.A., Johns Hopkins University, 1976; M.B.A., University of Chicago, 1979; Ph.D., 1981. Visiting Associate, Caltech, 1993; Rea A. and Lela G. Axline Professor of Business Economics, 1994-2008; Kirby Professor of Behavioral Finance and Economics, 2008; Kirby Professor, 2008-; Chen Center for Social and Decision Neuroscience Leadership Chair, 2017-; Executive Officer, 2017-19; Director, Chen Center for Social and Decision Neuroscience, 2017-.

Robert A (Andy) Cameron
Senior Research Associate in Biology, Emeritus
B.A., San Jose State College, 1968; Ph.D., University of California (Santa Cruz), 1975. Visiting Associate, Caltech, 1984-85; Senior Research Fellow, 1985-89; Senior Research Associate, 1989-2015; Senior Research Associate, Emeritus, 2015-.

Christopher J (Justin) Campbell
Harry Bateman Instructor in Mathematics

Judith L Campbell, Ph.D.
Professor of Chemistry and Biology
B.A., Wellesley College, 1965; Ph.D., Harvard University, 1974. Assistant Professor of Chemistry, Caltech, 1977-83; Associate Professor, 1983-85; Associate Professor of Chemistry and Biology, 1985-89; Professor, 1989-.

Sean M Carroll
Research Professor of Physics
B.S., Villanova University, 1988; Ph.D., Harvard University, 1993. Caltech, 2006-.
Colleen M Cavanaugh
Visiting Associate in Biology and Biological Engineering

Juan Ceva
Lecturer in Humanities

Jean-Lou A Chameau, Ph.D., D.Sc.h.c.
President Emeritus

David C Chan, Ph.D.
Professor of Biology
A.B., Harvard College, 1988; M.D., Harvard Medical School, 1996; Ph.D., 1996. Assistant Professor, Caltech, 2000-06; Bren Scholar, 2000-06; Associate Professor, 2006-10; Professor, 2010-; HHMI Investigator, 2008-14.

Garnet K Chan, Ph.D.
Bren Professor of Chemistry

Sunny I Chan, Ph.D.
George Grant Hoag Professor of Biophysical Chemistry, Emeritus
B.S., University of California, 1957; Ph.D., 1961. Assistant Professor of Chemical Physics, Caltech, 1963-64; Associate Professor, 1964-68; Professor, 1968-76; Professor of Chemical Physics and Biophysical Chemistry, 1976-92; Hoag Professor, 1992-2001; Hoag Professor Emeritus, 2002-. Acting Executive Officer for Chemistry, 1977-78; Executive Officer, 1978-80; 1989-94; Master of Student Houses, 1980-83.

Venkat Chandrasekaran, Ph.D.
Professor of Computing and Mathematical Sciences and Electrical Engineering
B.A., Rice University, 2005; B.S., 2005; M.S., Massachusetts Institute of Technology, 2007; Ph.D., 2011. Assistant Professor, Caltech, 2012-17; Professor, 2017-.

Kanianthra M (Mani) Chandy, Ph.D.
Simon Ramo Professor of Computer Science, Emeritus
B.Tech., Indian Institute of Technology, 1965; M.S., Polytechnic Institute of Brooklyn, 1966; Ph.D., Massachusetts Institute of Technology, 1969. Sherman Fairchild Distinguished Scholar, Caltech, 1988; Visiting Professor, 1988-89; Professor, 1989-97; Ramo Professor, 1997-2014; Ramo Professor, Emeritus, 2014-; Executive Officer for Computer Science, 1997-2000; Deputy Chair, 2009-12.

Katerina Chatziioannou, Ph.D.
Assistant Professor of Physics
B.S., University of Athens, 2010; M.S., Montana State University, 2013; Ph.D, 2016. Caltech, 2020-.

Chengwu (Tim) Chen
Visiting Associate in Medical Engineering
B.S., National Taiwan University, 1999; M.S., National Central University, 2000; Ph.D., 2004. Caltech, 2019-20.

Lei Chen
Noether Instructor in Mathematics

Xie Chen, Ph.D.
Professor of Theoretical Physics
B.S., Tsinghua University China, 2006; Ph.D., Massachusetts Institute of Technology, 2012. Assistant Professor, Caltech, 2014-17; Associate Professor, 2017-19; Professor, 2019-.

Yanbei Chen, Ph.D.
Professor of Physics
B.S., Peking University, 1999; Ph.D., Caltech, 2003. Visiting Associate, Caltech, 2005-07; Assistant Professor, 2007-10; Associate Professor, 2010-13; Professor, 2013-.

Wan Cheng
Visiting Associate in Aerospace

Alexey Chernov
Visiting Associate in Computing and Mathematical Sciences

Clifford W Cheung, Ph.D.
Professor of Theoretical Physics
B.S., Yale University, 2004; M.A.,
Harvard University, 2006; Ph.D., 2009. Assistant Professor, Caltech, 2012-19; Professor, 2019-.

Calum R Chisholm
Visiting Associate in Applied Physics and Materials Science

Won-Chae Choe
Visiting Associate in Chemistry

Anne Chomyn
Senior Research Associate in Biology, Emeritus

Shasha Chong
Visiting Associate in Chemistry
B.S., University of Science and Technology of China, 2008; Ph.D., Harvard University, 2014. Caltech, 2020-21.

Hyuck Choo
Visiting Associate in Electrical Engineering

Tsui-Fen Chou
Research Professor of Biology and Biological Engineering
B.S., National Taiwan University, 1999; Ph.D., University of Minnesota, 2006. Caltech, 2018-.

Vasileios N Christopoulos
Visiting Associate in Biology and Biological Engineering

Soon-Jo Chung, Ph.D.
Bren Professor of Aerospace; Jet Propulsion Laboratory Research Scientist
B.S., Korea Advanced Institute of Science and Technology, 1998; S.M., Massachusetts Institute of Technology, 2002; Sc.D., 2007. Associate Professor, Caltech, 2016-18; Professor, 2018-19; Bren Scholar, 2016-19; Bren Professor, 2019-; Jet Propulsion Laboratory Research Scientist, 2016-.

Robert W Clayton, Ph.D.
Professor of Geophysics
B.A.Sc., University of Toronto, 1973; M.Sc., University of British Columbia, 1976; Ph.D., Stanford University, 1981. Assistant Professor of Exploration Geophysics, Caltech, 1981-85; Associate Professor, 1985-89; Professor of Geophysics, 1989-. Executive Officer for Geophysics, 1987-94; Acting Director, Seismological Laboratory, 1989; 2008-09; Deputy Director, 1989-90; Academic Officer, 2008-19.

Elizabeth S Cochran
Visiting Associate in Geophysics

Judith G Cohen, Ph.D.
Kate Van Nuys Page Professor of Astronomy, Emeritus

Marshall H Cohen, Ph.D.
Professor of Astronomy, Emeritus
B.E.E., Ohio State University, 1948; M.S., 1949; Ph.D., 1952. Visiting Associate Professor, Caltech, 1965; Professor of Radio Astronomy, 1968-90; Professor of Astronomy, 1990-95; Professor Emeritus, 1995-. Executive Officer for Astronomy, 1981-85.

Andres Collazo
Lecturer in Biology and Biological Engineering
Tim Colonius, Ph.D.
Frank and Ora Lee Marble Professor of Mechanical Engineering
B.S., University of Michigan (Ann Arbor), 1987; M.S., Stanford University, 1988; Ph.D., 1994. Assistant Professor, Caltech, 1994-2000; Associate Professor, 2000-05; Professor, 2005-16; Marble Professor, 2017-.

David Conlon, Ph.D.
Professor of Mathematics
B.A., University of Dublin Trinity College, 2003; M.A., University of Cambridge, 2006; Ph.D., University of Cambridge, 2009; Moore Distinguished Scholar, Caltech, 2018; Professor, 2019-.

Robert D (Dale) Conner
Visiting Associate in Applied Physics and Materials Science
B.S., California State Polytechnic University, 1989; M.S., Caltech, 1994; Ph.D., 1998. Assistant Professor, California State University (Northridge), 2006-; Visiting Associate, Caltech, 2001-02; Lecturer, 2002-04; Senior Research Fellow, 2003-06; Visiting Associate, 2006-21.

Erik M Conway
Visiting Associate in the Humanities

Asantha Cooray
Visiting Associate in Physics
B.S., Massachusetts Institute of Technology, 1997; M.S., 1997; M.S., University of Chicago, 1998; Ph.D., 2001. Assistant Professor, University of California (Irvine), 2005-. Sherman Fairchild Senior Research Fellow, Caltech, 2001-05; Visiting Associate, 2005-21.

Noel Corngold, Ph.D.
Professor of Applied Physics, Emeritus

Abigail T Crites
Visiting Associate in Physics

Michael C Cross, Ph.D.
Professor of Theoretical Physics, Emeritus
B.A., University of Cambridge, 1972; Ph.D., 1975. Professor, Caltech, 1984-2016; Professor Emeritus, 2016-.

Cesar Cuenca Lucero
Olga Taussky & John Todd Instructor in Mathematics

Fred E Culick, Ph.D.
Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering and Professor of Jet Propulsion, Emeritus
S.B., S.M., Massachusetts Institute of Technology, 1957; Ph.D., 1961. Research Fellow in Jet Propulsion, Caltech, 1961-63; Assistant Professor, 1963-66; Associate Professor, 1966-71; Professor, 1971-78; Professor of Applied Physics and Jet Propulsion, 1978-88; Professor of Mechanical Engineering and Jet Propulsion, 1988-97; Hayman Professor, 1997-2004; Professor of Jet Propulsion, 1997-2004; Hayman Professor and Professor, Emeritus, 2004-.

Scott K Cushing, Ph.D.
Assistant Professor of Chemistry
B.S., West Virginia University, Morgantown, 2011; Ph.D., 2015; Visiting Associate, Caltech, 2018; Assistant Professor, 2018-.

Curt J Cutler
Senior Faculty Associate in Physics
B.S., Yale University, 1983; Ph.D., 1989. Visiting Associate, Caltech, 1999-2006; Senior Faculty Associate, 2006-.

Jaksa Cvitanic, Ph.D.
Richard N. Merkin Professor of Mathematical Finance; Director, Ronald and Maxine Linde Institute of Economic and Management Sciences
B.A., University of Zagreb (Croatia), 1985 M.S., 1988; M.Phil., Columbia University, 1991; Ph.D., 1992. Professor, Caltech, 2005-13; Merkin Professor, 2013-; Associate Director, Ronald and Maxine Linde Institute of Economic and Management Sciences, 2015-16; Director, Ronald and Maxine Linde Institute of Economic and Management Sciences, 2016-.

John O Dabiri, Ph.D.
Centennial Professor of Aeronautics and Mechanical Engineering
B.S., Princeton, 2001; M.S., Caltech, 2003; Ph.D., 2005. Assistant Professor, Caltech, 2005-09; Associate Professor, 2009-10; Professor, 2010-16; Visiting Associate, 2019; Centennial Professor,
Christine Daley  
Lecturer in Writing  

Nathan F Dalleska  
Lecturer in Chemistry  

Chiara Daraio, Ph.D.  
Professor of Mechanical Engineering and Applied Physics  
B.S.; M.S., University of Ancona (Italy), 2001; M.S., University of California (San Diego), 2003; Ph.D., 2006. Assistant Professor, Caltech, 2006-10; Professor, 2011-.

Siddharth Dasgupta  
Visiting Associate in Chemistry  

Mark E Davis, Ph.D.  
Warren and Katharine Schlinger Professor of Chemical Engineering  

Artur Davoyan  
Visiting Associate in Applied Physics and Materials Science  

Eric de Bodt  
Visiting Associate in Finance  

Katherine R de Kleer, Ph.D.  
Assistant Professor of Planetary Science  
B.Sc., Massachusetts Institute of Technology (Mathematics & Physics), 2009; M.A., University of California, Berkeley, 2013; Ph.D., 2017. Caltech, 2019-.

Richard A Dean, Ph.D.  
Professor of Mathematics, Emeritus  
B.S., Caltech, 1945; A.B., Denison University, 1947; M.S., Ohio State University, 1948; Ph.D., 1953. Harry Bateman Research Fellow, Caltech, 1954-55; Assistant Professor, 1955-59; Associate Professor, 1959-66; Professor, 1966-86; Professor Emeritus, 1987-.

Marios D Demetriou  
Visiting Associate in Applied Physics and Materials Science  

Tracy K Dennison, Ph.D.  
Professor of Social Science History  
B.A., Bucknell University, 1992; M.Phil., University of Oxford, 1999; Ph.D., University of Cambridge, 2004. Assistant Professor, Caltech, 2006-09; Associate Professor, 2009-11; Professor, 2011-.

Peter B Dervan, Ph.D., D.Sc.h.c.  
Bren Professor of Chemistry, Emeritus  
B.S., Boston College, 1967; Ph.D., Yale University, 1972; D.Sc.h.c., Boston College, Assistant Professor, Caltech, 1973-79; Associate Professor, 1979-82; Professor, 1982-88; Bren Professor, 1988-2019; Bren Professor, Emeritus, 2020-; Chair, Division of Chemistry and Chemical Engineering, 1994-99; Vice President for Development and Institute Relations, 2011-12.

Mathieu Desbrun, Ph.D.  
Carl F Braun Professor of Computing and Mathematical Sciences  
M.Eng., National Engineering School of Computer Science and Applied Mathematics (Grenoble), 1994; M.S., University of Grenoble, 1994; Ph.D., National Polytechnic Institute of Grenoble, 1997. Visiting Associate, Caltech, 2000-04; Associate Professor, 2004-09; Professor, 2009-13; Miles Professor, 2013-16; Braun Professor, 2017-; Director of Information Science and Technology, 2009-12; Director of Computing and Mathematical Sciences, 2009-14; Executive Officer for Computing and Mathematical Sciences, 2014-15.

Stanley Deser  
Visiting Associate in Theoretical Physics  
M.A., Harvard University, 1950; Ph.D.,
Raymond J (Ray) Deshaies  
Visiting Associate in Biology and Biological Engineering  
B.S., Cornell University, 1983; Ph.D., University of California, 1988. Assistant Professor, Caltech, 1994-99; Associate Professor, 2000-05; Professor, 2005-17; HHMI Investigator, 2000-17; Executive Officer, 2006-16; Visiting Associate 2017-21.

Robert A Desharnais  
Visiting Associate in Computing and Mathematical Sciences  

Mamadou S Diallo  
Lecturer in Applied Physics and Materials Science  

Clive Dickinson  
Visiting Associate in Astronomy  

Michael H Dickinson, Ph.D.  
Esther M. and Abe M. Zarem Professor of Bioengineering and Aeronautics  
Sc.B., Brown University, 1984; Ph.D., University of Washington, 1989. Visiting Associate, Caltech, 2001-02; Professor, 2002-03; Zarem Professor, 2003-.

Paul Dimotakis, Ph.D.  
John K. Northrop Professor of Aeronautics and Professor of Applied Physics  
B.S., Caltech, 1968; M.S., 1969; Ph.D., 1973. Research Fellow, 1973-74; Research Fellow and Lecturer, 1974-75; Assistant Professor, 1975-81; Associate Professor, 1981-85; Professor, 1986-95; Northrop Professor, 1995-. Jet Propulsion Laboratory Chief Technologist, 2006-11.

Stanislav G (George) Djorgovski, Ph.D.  
Professor of Astronomy  
B.A., University of Belgrade, 1979; M.A., University of California, 1981; Ph.D., 1985; Assistant Professor, Caltech 1987-90; Associate Professor, 1990-97; Professor, 1997-; Director, Center for Data Driven Discovery, 2014-19; Executive Officer for Astronomy, 2016-19.

Olivier P Dore  
Visiting Associate in Theoretical Astrophysics  

Dennis A Dougherty, Ph.D.  
George Grant Hoag Professor of Chemistry; Norman Davidson Leadership Chair, Division of Chemistry and Chemical Engineering  
B.S., M.S., Bucknell University, 1974; Ph.D., Princeton University, 1978. Assistant Professor, Caltech, 1979-85; Associate Professor, 1985-89; Professor, 1989-2001; Hoag Professor, 2002-; Executive Officer for Chemistry, 1994-99; Director, 2018-19; Division Chair, 2019-; Davidson Leadership Chair, 2019-.

John C Doyle, Ph.D.  
Jean-Lou Chameau Professor of Control and Dynamical Systems, Electrical Engineering, and Bioengineering  
B.S., M.S., Massachusetts Institute of Technology, 1977; Ph.D., University of California, 1984. Visiting Assistant Professor of Electrical Engineering, Caltech, 1985; Visiting Associate Professor, 1986; Visiting Associate in Chemistry, 1986-87; Associate Professor of Electrical Engineering, 1987-91; Professor, 1991-2001; Professor of Control and Dynamical Systems, Electrical Engineering, and Bioengineering, 2002-04; Braun Professor, 2004-08; 2009-13; Jean-Lou Chameau Professor, 2013-.

Julien C Dubois  
Lecturer in Psychology  

William G Dunphy, Ph.D.  
Grace C. Steele Professor of Biology  
A.B., Harvard College, 1980; Ph.D., Stanford University, 1985. Assistant Professor, Caltech, 1989-95; Associate Professor, 1995-2001; Professor, 2001-08; Steele Professor, 2009-.

Polona Durcik  
Harry Bateman Instructor in Mathematics  

Maura D Dykstra, Ph.D.  
Assistant Professor of History  
B.A., California State University,
Sacramento, 2004; M.A., University of California, Los Angeles, 2008; Ph.D., 2014. Research Assistant Professor, Caltech, 2015-16; Assistant Professor, 2016-.

Frederick D Eberhardt, Ph.D.
Professor of Philosophy

Bertrand Echenard
Research Professor of High Energy Physics

Federico M Echenique, Ph.D.
Allen and Lenabelle Davis Professor of Economics
Licenciado, University of the Republic (Uruguay), 1995; Ph.D., University of California, 2000. Instructor, Caltech, 2002-03; Assistant Professor, 2004; Associate Professor, 2004-10; Professor, 2010-16; Davis Professor, 2016-; Executive Officer, 2013-16.

Michelle Effros, Ph.D.
George Van Osdol Professor of Electrical Engineering
B.S., Stanford University, 1989; M.S., 1990; Ph.D., 1994. Assistant Professor, Caltech, 1994-2000. Associate Professor, 2000-05; Professor, 2005-13; Van Osdol Professor, 2013-.

Bethany L Ehlmann, Ph.D.
Professor of Planetary Science; Jet Propulsion Laboratory Research Scientist

John M Eiler, Ph.D.
Robert P. Sharp Professor of Geology and Geochemistry
B.S., University of Iowa, 1989; M.S., University of Wisconsin (Madison), 1991; Ph.D., 1994. Research Fellow, Caltech, 1994-97; Senior Research Fellow 1997-98; Assistant Professor, 1998-2003; Associate Professor, 2003-06; Professor, 2006-; Sharp Professor, 2008-.

James P (Jim) Eisenstein, Ph.D.
Frank J. Roshek Professor of Physics and Applied Physics, Emeritus
A.B., Oberlin College, 1974; Ph.D., University of California, 1980. Professor of Physics, Caltech, 1996-2004; Roshek Professor, 2004-05; Roshek Professor of Physics and Applied Physics, 2005-17; Roshek Professor, Emeritus, 2017-.

Joshua T Eisenthal
Research Assistant Professor of Philosophy
B.A., Oxford University, 2008; P.G.C.E., Canterbury Christ Church University, 2009; Ph.D., University of Pittsburgh, 2018. Caltech, 2019-.

Charles Elachi, Ph.D., D.Sc.h.c.
Professor of Electrical Engineering and Planetary Science, Emeritus
B.Sc., University of Grenoble, 1968; Dipl. Ing., National Polytechnical Institute (Grenoble), 1968; M.S., Caltech, 1969; Ph.D., 1971; M.B.A., University of Southern California, 1978; D.Sc.h.c., Occidental College. Research Fellow, Caltech, 1971-73; Lecturer in Electrical Engineering, 1982-88; Lecturer in Electrical Engineering and Planetary Science, 1988-2001; Professor, 2002-18. Vice President and Director, 2001-16; Professor Emeritus, 2016-.

Gwynn J Elfring
Visiting Associate in Chemical Engineering

Richard S Ellis
Visiting Associate in Astronomy

Michael B Elowitz, Ph.D.
Professor of Biology and Bioengineering; Investigator, Howard Hughes Medical Institute; Executive Officer for Biological Engineering
B.A., University of California, 1992; M.A., Ph.D., Princeton University, 1999. Assistant Professor, Caltech, 2003-09; Bren Scholar, 2003-09; Associate Professor, 2009-10; Professor, 2010-; HHMI Investigator, 2008-; Executive Officer, 2013-.
Azita Emami, Ph.D.
Andrew and Peggy Cherng Professor of Electrical Engineering and Medical Engineering; Investigator, Heritage Medical Research Institute; Executive Officer for Electrical Engineering
B.S., Sharif University of Technology, 1996; M.S., Stanford University, 1999; Ph.D., 2004. Assistant Professor, Caltech, 2007-13; Professor, 2013-17; Cherng Professor, 2017--; HMRI Investigator, 2015--; EAS Division Deputy Chair, 2015-18; Executive Officer, 2018-.

Manuel A Endres, Ph.D.
Assistant Professor of Physics; Rosenberg Scholar
M.Sc., Johannes Gutenberg-Universität Munich, 2008; Ph.D., Ludwig-Maximilians-Universität Munich, 2013. Visiting Associate, Caltech, 2015-16; Assistant Professor, 2016--; Rosenberg Scholar, 2019-.

Hermann Engelhardt
Senior Research Associate in Geophysics, Emeritus
Dipl., Technical University of Munich, 1960; Dr.rer.Nat., 1974. Senior Research Fellow, Caltech, 1976-79; Visiting Associate, 1981; Senior Research Associate, 1988-2002; Senior Research Associate Emeritus, 2002-.

Jean E Ensminger, Ph.D.
Edie and Lew Wasserman Professor of Social Sciences
B.A., Cornell University, 1974; M.A., Northwestern University, 1976; Ph.D., 1984. Professor of Anthropology, Caltech, 2000-07; Wasserman Professor of Anthropology, 2007-09; Wasserman Professor, 2009-. Chair, Division of the Humanities and Social Sciences, 2002-06.

Thomas E (Tom) Everhart, Ph.D., D.L.h.c., D.h.c.
President Emeritus; Professor of Electrical Engineering and Applied Physics, Emeritus
A.B., Harvard College, 1953; M.Sc., University of California (Los Angeles), 1955; Ph.D., University of Cambridge, 1958; D.L.h.c., Illinois Wesleyan University; Pepperdine University; D.h.c., Colorado School of Mines. Professor, Caltech, 1987-99; Professor Emeritus, 1999-. President, 1987-97; President Emeritus, 1997-.

Pamela L Eversole-Cire
Visiting Associate in Biology
B.S. (Biology), B.S. (Chemistry), University of California (Irvine), 1982; M.S., 1985; Ph.D., University of Southern California, 1994. Research Fellow, Caltech, 1995-98; Senior Research Fellow, 1998-2001; Visiting Associate, 2008-20.

Michael J Ewens, Ph.D.
Professor of Finance and Entrepreneurship
B.A., Washington University in St. Louis, 2004; M.A., University of California, San Diego, 2008; Ph.D., 2010. Associate Professor, Caltech, 2014-19; Professor, 2019-.

Katherine T Faber, Ph.D.
Simon Ramo Professor of Materials Science
B.S., Alfred University, 1975; M.S., The Pennsylvania State University, 1978; Ph.D., University of California, Berkeley, 1982. Ramo Professor, Caltech, 2014-.

Jennifer L Factor
Lecturer in Poetry

Joseph L Falson, Ph.D.
Assistant Professor of Materials Science
B.S., University of New South Wales, 2009; M.S., Tohoku University, 2012; Ph.D., University of Tokyo, 2015. Visiting Associate, Caltech, 2019; Assistant Professor, 2020-.

Andrei Faraon, Ph.D.
Professor of Applied Physics and Electrical Engineering
B.S., California Institute of Technology, 2004; M.S., Stanford University, 2009; Ph.D., 2009. Visiting Associate, Caltech, 2011-12; Assistant Professor, 2012-18; Professor, 2018-.

Kenneth A Farley, Ph.D.
W.M. Keck Foundation Professor of Geochemistry
B.S., Yale University, 1986; Ph.D., University of California (San Diego), 1991. Assistant Professor, Caltech, 1993-96; Associate Professor, 1997-98; Professor, 1998-2003; Keck Foundation Professor, 2003-. Director, Tectonic Observatory, 2003-04; Division Chair, 2004-14.

Mordechai Feingold, Ph.D.
Kate Van Nys Page Professor of the History of Science and the Humanities
B.A., Hebrew University of Jerusalem,
Katalin (Kata) Fejes Toth  
**Research Professor of Biology and Biological Engineering**  
M.D., Semmelweiss University, 2001; Ph.D., University of Heidelberg, 2004. Visiting Associate Professor, Caltech, 2010-21.

M. Houman Fekrazad  
**Visiting Associate in Medical Engineering**  

Yejun Feng  
**Visiting Associate in Physics**  

Bradley W Filipone, Ph.D.  
**Francis L. Moseley Professor of Physics**  
B.S., Pennsylvania State University, 1977; M.S., University of Chicago, 1979; Ph.D., 1982. Research Fellow, Caltech, 1983-84; Assistant Professor, 1984-90; Associate Professor, 1990-95; Professor, 1995-2016; Moseley Professor, 2016-.

Woodward Fischer, Ph.D., D.h.c.  
**Professor of Geobiology; Associate Director, Center for Autonomous Systems and Technologies**  
B.A., Colorado College, 2000; Ph.D., Harvard University, 2007; D.h.c., Colorado College. Assistant Professor, Caltech, 2009-14; Professor, 2014-; Associate Director, 2018-.

Matthias Flach, Ph.D.  
**Professor of Mathematics**  
Dipl., Johann-Wolfgang von Goethe University (Frankfurt), 1986; Ph.D., St. John’s College, 1991. Associate Professor, Caltech, 1995-99; Professor, 1999-. Executive Officer for Mathematics, 2006-09.

Richard C Flagan, Ph.D.  
**Irma and Ross McCollum-William H. Corcoran Professor of Chemical Engineering and Environmental Science and Engineering**  
B.S.E., University of Michigan, 1969; S.M., Massachusetts Institute of Technology, 1971; Ph.D., 1973. Assistant Professor of Environmental Engineering Science, Caltech, 1975-81; Associate Professor, 1981-84; Associate Professor of Environmental Engineering and Mechanical Engineering, 1984-85; Professor, 1986-90; Professor of Chemical Engineering, 1990-2000; McCollum Professor of Chemical Engineering, 2000-03; McCollum Professor of Chemical Engineering and Professor of Environmental Science and Engineering, 2003-04; McCollum-Corcoran Professor of Chemical Engineering and Environmental Science and Engineering, 2004-; Acting Executive Officer for Chemical Engineering, 1996; Executive Officer, 1997; 2004-13.

Yuman Fong  
**Visiting Associate in Medical Engineering**  

Stephen J Forman  
**Visiting Associate in Chemical Engineering**  

Alessandro Fortunelli  
**Visiting Associate in Chemistry**  

Abigail Fraeman  
**Visiting Associate in Planetary Science**  

Rupert L Frank, Ph.D.  
**Professor of Mathematics**  

Christian Frankenberg, Ph.D.  
**Professor of Environmental Science and Engineering; Jet Propulsion Laboratory Research Scientist**  
B.S., University of Bayreuth, 2002; Ph.D., Ruprecht-Karls-Universitat Heidelberg, 2005. Assistant Professor, Caltech, 2015-18; Professor, 2018-; Jet Propulsion Laboratory Research Scientist, 2015-.
Steven C Frautschi, Ph.D.
Professor of Theoretical Physics, Emeritus
A.B., Harvard College, 1954; Ph.D., Stanford University, 1958. Assistant Professor, Caltech, 1962-64; Associate Professor, 1964-66; Professor, 1966-2006; Professor Emeritus, 2006-.
Executive Officer for Physics, 1988-97; Master of Student Houses, 1997-2002.

Katherine H (Kate) Freeman, Ph.D.
Moore Distinguished Scholar in Geobiology

Gregory C Fu, Ph.D.
Norman Chandler Professor of Chemistry
B.S., Massachusetts Institute of Technology, 1985; Ph.D., Harvard University, 1991. Moore Distinguished Scholar, Caltech, 2011; Altair Professor, 2012-16; Chandler Professor, 2016-.

Xiaojing (Ruby) Fu
Visiting Associate in Mechanical and Civil Engineering

Megumi Fujiio
Lecturer in Japanese

James (Jim) Fuller, Ph.D.
Assistant Professor of Theoretical Astrophysics
B.A., Whitman College, 2008; M.S., Cornell University, 2011; Ph.D., 2014. Visiting Associate, Caltech 2017; Assistant Professor, 2017-.

Brent Fultz, Ph.D.
Barbara and Stanley R. Rawn, Jr., Professor of Materials Science and Applied Physics
B.Sc., Massachusetts Institute of Technology, 1975; M.Sc., University of California, 1978; Ph.D., 1982. Assistant Professor, Caltech, 1985-90; Associate Professor, 1990-97; Professor of Materials Science, 1997-2002; Professor of Materials Science and Applied Physics, 2003-13; Rawn Professor, 2013-.

Margaret E Gaida
Postdoctoral Instructor in Early Modern Natural Philosophy

Todd C Gaier
Faculty Associate in Physics
Ph.D., University of California (Santa Barbara), 1993. Principal Staff, Jet Propulsion Laboratory, 1996-. Caltech, 2004-.

Chad Galley
Visiting Associate in Physics

Wei Gao, Ph.D.
Assistant Professor of Medical Engineering
B.S., Huazhong University of Science & Technology, 2007; M.S., Tsinghua University, 2009; Ph.D., University of California, San Diego, 2014. Caltech, 2017-.

Daniel A Garcia
Lecturer in Spanish

Javier Garcia
Research Assistant Professor of Physics

George R Gavalas, Ph.D.
Professor of Chemical Engineering, Emeritus
B.S., Technical University of Athens, 1958; M.S., University of Minnesota, 1962; Ph.D., 1964. Assistant Professor, Caltech, 1964-67; Associate Professor, 1967-75; Professor, 1975-2002; Professor Emeritus, 2002-.

Emmanuel Gdoutos
Visiting Associate in Aerospace
M.S., National Technical University of Athens, 1971; Ph.D., 1973. Clark B Mil-
Dmitri Gekhtman
Lecturer in Mathematics
B.A., Harvard University, 2014; Ph.D., California Institute of Technology, 2019.
Caltech 2019.

Glen A George
Teaching Professor of Electrical Engineering

Morteza Gharib, Ph.D.
Hans W. Liepmann Professor of Aeronautics and Bioinspired Engineering; Booth-Kresa Leadership Chair, Center for Autonomous Systems and Technologies; Director, Graduate Aerospace Laboratories; Director, Center for Autonomous Systems and Technologies
B.S., Teheran University, 1976; M.S., Syracuse University, 1978; Ph.D., Caltech, 1983. Professor of Aeronautics, 1992-2001; Professor of Aeronautics and Bioengineering, 2001-02; Liepmann Professor of Aeronautics and Bioengineering, 2002-06; Professor of Bioengineering, 2006-09; Professor of Bioinspired Engineering, 2009-13; Liepmann Professor, 2006-; Director, Linde Institute, 2014-15; Vice Provost, 2010-16; Director, Graduate Aerospace Laboratories, 2015-; Director, Center for Autonomous Systems and Technologies, 2017-; Booth-Kresa Leadership Chair, 2018-.

Alexandru Gheorghiu
Lecturer in Computing and Mathematical Sciences

Konstantinos P Giapis
Professor of Chemical Engineering
Dipl., National Technical University of Athens, 1984; Ph.D., University of Minnesota, 1989. Lacey Instructor, Caltech, 1992-93; Assistant Professor, 1993-98; Associate Professor, 1999-2010; Professor, 2010-.

Michael B Gibilisco, Ph.D.
Assistant Professor of Political Science
B.A., Creighton University, 2010; M.A., University of Rochester, 2014; Ph.D., 2017; Caltech, 2017-.

Kevin M Gilmartin, Ph.D.
William R. Kenan, Jr., Professor of English; Dean of Undergraduate Students; Allen V. C. Davis and Lenabelle Davis Leadership Chair, Student Affairs; Vice President for Student Affairs
B.A., Oberlin College, 1985; M.A., University of Chicago, 1986; Ph.D., 1991. Assistant Professor, Caltech, 1991-97; Associate Professor of Literature, 1997-2004; Associate Professor of English, 2004-07; Professor, 2007-18; Kenan Professor, 2018-. Dean of Undergraduate Students, 2016-; Vice President, Student Affairs, 2020-; Davis Leadership Chair, 2020-.

Dehn Gilmore, Ph.D.
Professor of English
B.A., Harvard University, 2002; M.Phil., University of Cambridge (Trinity College), 2003; M.Phil., Columbia University, 2005; Ph.D., 2009. Assistant Professor, Caltech, 2009-15; Professor, 2015-.

David M Glover
Research Professor of Biology and Biological Engineering
B.A., University of Cambridge, 1969; Ph.D., University College (London), 1972. Caltech, 2019-.

William A (Bill) Goddard, Ph.D.
Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics
B.S., University of California (Los Angeles), 1960; Ph.D., Caltech, 1965. Noyes Research Fellow in Chemistry, 1964-66; Noyes Research Instructor, 1966-67; Assistant Professor of Theoretical Chemistry, 1967-71; Associate Professor, 1971-74; Professor, 1974-78; Professor of Chemistry and Applied Physics, 1978-84; Ferkel Professor of Chemistry, 1984-2001; Ferkel Professor of Chemistry, Materials Science, and Applied Physics, 2001-.
Lea A Goentoro, Ph.D.
Professor of Biology
B.S., University of Wisconsin-Madison, 2001; Ph.D., Princeton University, 2006. Assistant Professor, Caltech, 2011-18; Professor, 2018-.

Peter Goldreich, Ph.D.
Lee A. DuBridge Professor of Astrophysics and Planetary Physics, Emeritus

Paul F Goldsmith
Visiting Associate in Astronomy

Matthew Golombek
Visiting Associate in Planetary Science

Sunil Golwala, Ph.D.
Professor of Physics; Director, Caltech Submillimeter Observatory; Deputy Executive Officer for Astrophysics
B.A., University of Chicago, 1993; M.A., University of California, Berkeley, 1995; Ph.D., 2000. Assistant Professor, Caltech, 2003-10; Associate Professor, 2010; Professor, 2010--; Director, Caltech Submillimeter Observatory, 2013--; Deputy Executive Officer, 2019--.

Christian Goodnow
Lecturer in Chemistry

David L Goodstein, Ph.D.
Frank J. Gilloon Distinguished Teaching and Service Professor, Emeritus; Professor of Physics and Applied Physics, Emeritus

Judith R Goodstein
University Archivist, Emeritus

Ashwin Gopinath
Visiting Associate in Computing and Mathematical Sciences
B. E., Visvesvaraya Technological University, 2005; Ph.D., Boston University, 2015, Caltech, 2018-20.

Roy W Gould, Ph.D.
Simon Ramo Professor of Engineering, Emeritus
B.S., Caltech, 1949; M.S., Stanford University, 1950; Ph.D., Caltech, 1956. Assistant Professor of Electrical Engineering, 1955-58; Associate Professor, 1958-60; Associate Professor of Electrical Engineering and Physics, 1960-62; Professor, 1962-74; Professor of Applied Physics, 1974-80; Ramo Professor of Engineering, 1980-96; Ramo Professor Emeritus, 1996-. Executive Officer for Applied Physics, 1973-79; Chairman, Division of Engineering and Applied Science, 1979-85.

Thomas B Graber, Ph.D.
Professor of Mathematics
A.B., Harvard, 1994; M.A. University of California (Los Angeles), 1995; Ph.D., 1998. Associate Professor, Caltech, 2005-08; Professor, 2008-.

Viviana Gradinaru, Ph.D.
Professor of Neuroscience and Biological Engineering, Investigator, Heritage Medical Research Institute; Director, Center for Molecular and Cellular Neuroscience
B.S., California Institute of Technology, 2005; Ph.D., Stanford University, 2010. Visiting Associate, Caltech, 2012; Assistant Professor, 2012-18; Professor, 2018--; HMRI Investigator, 2015--; Director, 2017--.

Matthew J Graham
Research Professor of Astronomy
Jonathan Grandidier  
Visiting Associate in Applied Physics and Materials Science  

Robert W Graves  
Visiting Associate in Geophysics  

Harry B Gray, Ph.D., D.Sc.h.c., D.L.h.c., Fil.dr.h.c., Laurea.h.c., Ph.D.h.c., D.h.c.  
Arnold O. Beckman Professor of Chemistry; Founding Director, Beckman Institute  
B.S., Western Kentucky College, 1957; Ph.D., Northwestern University, 1960; D.Sc.h.c., Northwestern University; University of Rochester; University of Chicago; University Paul Sabatier(-France); Göteborg University; University of Pennsylvania; Bowling Green State University; University of Arizona; Colombia University; Oberlin College; Carleton University (Canada); University of South Carolina; University of Copenhagen; University of Edinburgh; Occidental College; Simon Fraser University; Carleton College; Fil.dr.h.c., Gothenburg University; Bowling Green State University; Laurea h.c., University of Florence; D.L.h.c., Illinois Wesleyan University; Ph.D.h.c., Weizmann Institute of Science (Israel); Visiting Professor of Inorganic Chemistry, Caltech, 1965; Professor of Chemistry, 1966-81; William R. Kenan Professor, 1976-81; Beckman Professor, 1981-; Chairman, Division of Chemistry and Chemical Engineering, 1978-84; Director, Beckman Institute, 1986-2001; Founding Director, 2001-.

Julia R Greer, Ph.D.  
Ruben F. and Donna Mettler Professor of Materials Science, Mechanics and Medical Engineering; Fletcher Jones Foundation Director of the Kavli Nanoscience Institute  
B.S., Massachusetts Institute of Technology, 1997; M.S., Stanford University, 2000; Ph.D., Stanford University, 2005. Assistant Professor, Caltech, 2007-13; Professor, 2013-19; Mettler Professor, 2019-; Fletcher Jones Foundation Director, 2019-.

David M Grether, Ph.D.  
Frank J. Gilloon Professor of Economics, Emeritus  
B.S., University of California, 1960; Ph.D., Stanford University, 1969. Associate Professor, Caltech, 1970-75; Professor, 1975-2009; Gilloon Professor, 2009-10; Gilloon Professor, Emeritus, 2010-. Executive Officer for Social Sciences, 1978-82; Chairman, Division of the Humanities and Social Sciences, 1982-92; Interim Chair, Division of the Humanities and Social Sciences, 2006-07.

Zeev Gross  
Visiting Associate in Chemistry  

John P Grotzinger, Ph.D.  
Fletcher Jones Professor of Geology; Ted and Ginger Jenkins Leadership Chair; Division of Geological and Planetary Sciences  
B.S., Hobart College, 1979; M.S., University of Montana, 1981; Ph.D., Virginia Polytechnic Institute and State University, 1985. Visiting Associate Professor, Caltech, 1996; Moore Distinguished Scholar, 2004; Fletcher Jones Professor, 2005-; Division Chair, 2014-; Jenkins Leadership Chair, 2016-.

Robert H (Bob) Grubbs, Ph.D.  
Nobel Laureate  
Victor and Elizabeth Atkins Professor of Chemistry  
B.S., University of Florida, 1963; M.S., 1965; Ph.D., Columbia University, 1968. Professor, Caltech, 1978-90; Atkins Professor, 1990-.

Philip M Gschwend  
Visiting Associate in Environmental Science and Engineering  
Michael C Gurnis, Ph.D.
John E. and Hazel S. Smits Professor of Geophysics; Director, Seismological Laboratory; Director, Schmidt Academy for Software Engineering
B.S., University of Arizona, 1982; Ph.D., Australian National University, 1987. Associate Professor, Caltech, 1994-96; Professor, 1996-2005. Smits Professor, 2005-. Associate Director, Seismological Laboratory, 1995-2003; Director, 2009-; Director, Schmidt Academy, 2019-.

Mitchell Guttman, Ph.D.
Professor of Biology; Investigator, Heritage Medical Research Institute
B.S., University of Pennsylvania, 2006; M.S., 2006; Ph.D., Massachusetts Institute of Technology, 2012. Visiting Associate, Caltech, 2012-13; Assistant Professor, 2013-19; Professor, 2019-; HMRI Investigator, 2015-.

Ryan G Hadt, Ph.D.
Assistant Professor of Chemistry
B.S., University of Minnesota, Duluth, 2007; M.S., 2008; Ph.D., Stanford University, 2014; Visiting Associate, Caltech, 2018; Assistant Professor, 2018-.

Cindy Hagan
Research Assistant Professor of Neuroscience

S A (Ali) Hajimiri, Ph.D.
Bren Professor of Electrical Engineering and Medical Engineering; Co-Director, Space-Based Solar Power Project
B.S., Sharif University of Technology, 1994; M.S., Stanford University, 1996; Ph.D., 1998. Assistant Professor, Caltech, 1998-2003; Associate Professor, 2003-06; Professor, 2006-10; Myers Professor, 2010-16; Bren Professor, 2016-; Executive Officer, 2015-18; Director, Information Science and Technology, 2015-16; Co-Director, 2016-.

John F Hall, Ph.D.
Professor of Civil Engineering, Emeritus
B.S., West Virginia University, 1972; M.S., University of Illinois, 1973; Ph.D., University of California, 1980. Research Fellow, Caltech, 1980-83; Lecturer, 1981-83; Assistant Professor, 1983-89; Associate Professor, 1989-97; Professor, 1997-19; Professor Emeritus, 2019-. Executive Officer for Civil Engineering and Applied Mechanics, 1998-2005. Dean, 2005-10; Acting Vice President, 2006-07.

Susanne E Hall
Teaching Professor of Writing and Director of the Hixon Writing Center

Ingileif B Hallgrimsdottir
Visiting Associate in Statistical Genetics
B.Sc., University of Iceland, 1998; M.Sc, Gothenburg University, 1999; Ph.D., University of California (Berkeley) 2005. Caltech, 2017-2021.

Gregg W Hallinan, Ph.D.
Professor of Astronomy; Director, Owens Valley Radio Observatory
B.Sc., National University of Ireland, 1992; Ph.D., 2004. Assistant Professor, Caltech, 2012-18; Professor, 2018-; Director, 2019-.

John M Harris
Visiting Associate in Geology

Fiona A Harrison, Ph.D., D.techn.h.c.
Harold A. Rosen Professor of Physics; Kent and Joyce Kresa Leadership Chair, Division of Physics, Mathematics and Astronomy
A.B., Dartmouth College, 1985; Ph.D., University of California, 1993; D.techn.h.c., Danish Technical University. Robert Millikan Research Fellow, Caltech, 1993-95; Assistant Professor of Physics, 1995-99; Assistant Professor of Physics and Astronomy, 1999-2001; Associate Professor 2001-2005; Professor, 2005-13; Rosen Professor, 2013-; Division Chair, 2015-; Kresa Leadership Chair, 2015-.

Anne C Hart
Visiting Associate in Biology and Biological Engineering

Douglas Hart
Visiting Associate in Mechanical and Civil Engineering
Babak Hassibi, Ph.D.
Mose and Lillian S. Bohn Professor of Electrical Engineering and Computing and Mathematical Sciences
B.S., University of Tehran, 1989; M.S., Stanford University, 1993; Ph.D. 1996. Assistant Professor, Caltech, 2001-03; Associate Professor, 2003-2008; Professor, 2008-2013; Binder/Amgen Professor, 2013-16; Executive Officer, 2008-15; Associate Director, 2010-2012; Bohn Professor, 2016-.

Kristine L Haugen, Ph.D.
Professor of English
B.A., University of Chicago, 1996; M.A., Princeton University, 1998; Ph.D., 2001. Assistant Professor, Caltech, 2005-11; Professor, 2011-.

Egill Hauksson
Research Professor of Geophysics

Bruce A Hay, Ph.D.
Professor of Biology
B.A., Claremont McKenna College, 1982; Ph.D., University of California (San Francisco), 1989. Assistant Professor, Caltech, 1996-2002; Associate Professor, 2002-08; Professor, 2008-.

Ryan J Hay
Lecturer in Philosophy

Thomas H Heaton, Ph.D.
Professor of Engineering Seismology, Emeritus
B.S., Indiana University, 1972; Ph.D., Caltech, 1978. Visiting Associate in Geophysics, 1980-91; Faculty Associate, 1991-95; Lecturer in Geophysics, 1993-94; Lecturer in Engineering Seismology, 1995; Professor, 1995-20; Professor, Emeritus, 2020-.

John L Heilbron
Visiting Associate in History

Jessica Helfand
Lecturer in Visual Culture

Tapio J Helin
Visiting Associate in Computing and Mathematical Sciences

George Helou
Research Professor of Physics; Executive Director of the Infrared Processing and Analysis Center
B.S., American University of Beirut, 1975; Ph.D., Cornell University, 1980. Senior Research Associate, Caltech, 1998-. Executive Director, 1999-.

John C Hemminger
Visiting Associate in Applied Physics and Materials Science

Sergi R Hildebrandt
Visiting Associate in Physics

Michael G Hill
Visiting Associate in Chemistry

Lynne Hillenbrand, Ph.D.
Professor of Astronomy
A.B., Princeton University, 1989; M.S., 1989; Ph.D., University of Massachusetts, 1995. Assistant Professor, Caltech, 2000-06; Associate Professor, 2006-10; Professor, 2010-; Executive Officer, 2007-12.

Steve Hindle
Visiting Professor of History

Christopher M Hirata
Visiting Associate in Physics
Alexander V (Alex) Hirsch, Ph.D.
Professor of Political Science
B.A., Yale University, 2003; Ph.D., Stanford University, 2010. Associate Professor, Caltech, 2014-16; Professor, 2016-.

Christopher R Hitchcock, Ph.D.
J. O. and Juliette Koepfli Professor of Philosophy; Executive Officer for the Humanities
A.B., Princeton University, 1986; M.A. (Philosophy); M.A. (Mathematics), University of Pittsburgh, 1990; Ph.D., 1993. Associate Professor, Caltech, 1998-2002; Professor, 2002-14; Koepfli Professor, 2014-; Executive Officer, 2018-.

David G Hitlin, Ph.D.
Professor of Physics
B.A., Columbia University, 1963; M.A., 1965; Ph.D., 1968. Associate Professor, Caltech, 1979-85; Professor, 1986-.

Andre Hoelz, Ph.D.
Professor of Chemistry; Investigator, Heritage Medical Research Institute
B.Sc., Albert-Ludwigs University of Freiburg, 1993; M.Sc., 1997; Ph.D., Rockefeller University, 2004. Assistant Professor, Caltech, 2010-16; Professor 2016-; HMRI Investigator, 2015-.

Philip T Hoffman, Ph.D.
Rea A. and Lela G. Axline Professor of Business Economics and History
A.B., Harvard College, 1969; M.A., University of California, 1971; Ph.D., Yale University, 1979. Lecturer in History, Caltech, 1980-81; Instructor, 1981-82; Assistant Professor, 1982-84; Associate Professor of History and Social Science, 1984-95; Professor, 1995-2003; Richard and Barbara Rosenberg Professor of History and Social Science, 2003-08; Axline Professor, 2008-; Executive Officer for the Humanities, 1995-2000.

Franca Karoline Olga (Franca) Hoffmann
von Karman Instructor in Computing and Mathematical Sciences

Michael R Hoffmann, Ph.D.
John S. and Sherry Chen Professor of Environmental Science

Douglas C Hofmann
Lecturer in Applied Physics and Materials Science; Visiting Associate in Applied Physics and Materials Science

Jocelyn Holland, Ph.D.
Professor of Comparative Literature

Roy J Holt
Visiting Associate in Physics
B.S., Southern Methodist University, 1969; M.Phil., Yale University, 1971; Ph.D., 1972. Professor, University of Illinois, 1994-2001. Visiting Associate in Theoretical Physics, Caltech, 2017-22; Argonne Distinguished Fellow, 2007-.

Elizabeth J (Betty) Hong, Ph.D.
Clare Boothe Luce Assistant Professor of Neuroscience
B.S., California Institute of Technology, 2002; Ph.D., Harvard University, 2009. Visiting Associate, Caltech, 2014-15; Assistant Professor, 2015; Boothe Luce Assistant Professor, 2015-.

John J Hopfield, Ph.D.
Roscoe G. Dickinson Professor of Chemistry and Biology, Emeritus
A.B., Swarthmore College, 1954; Ph.D., Cornell University, 1958. Dickinson Professor, Caltech, 1980-97; Dickinson Professor Emeritus, 1997-.

Philip F (Phil) Hopkins, Ph.D.
Professor of Theoretical Astrophysics; Executive Officer for Astronomy
B.A., Princeton University, 2004; M.A., Harvard University, 2005; Ph.D., 2008. Assistant Professor Caltech, 2013-16; Associate Professor, 2016-17; Professor, 2017-; Executive Officer, 2019-.

Cassandra V Horii
Lecturer in Engineering
B.A., University of Colorado, Boulder,
Hans G Hornung, Ph.D., D.h.c.
C. L. "Kelly" Johnson Professor of Aeronautics, Emeritus

Bamdad Hosseini
von Karman Instructor in Computing and Mathematical Sciences

Yizhao T (Thomas) Hou, Ph.D.
Charles Lee Powell Professor of Applied and Computational Mathematics
B.S., South China University of Technology, 1982; M.S., University of California (Los Angeles), 1985; Ph.D., 1987. Associate Professor of Applied Mathematics, Caltech, 1993-98; Professor, 1998-2000; Professor of Applied and Computational Mathematics, 2000-04; Powell Professor, 2004-. Executive Officer for Applied and Computational Mathematics, 2000-06.

Andrew W Howard, Ph.D.
Professor of Astronomy
B.S., Massachusetts Institute of Technology, 1998; M.A., Harvard University, 2001; Ph.D., 2006. Caltech, 2016-.

James B Howard
Visiting Associate in Chemistry

Julie A Hoy
Lecturer in Biology and Biological Engineering

Tzung K Hsiai
Visiting Associate in Medical Engineering

Elaine Y Hsiao
Visiting Associate in Biology and Biological Engineering
B.S., University of California (Los Angeles) 2006; Ph.D., Caltech, 2013. Research Assistant Professor, Caltech, 2014-21.

David Hsieh, Ph.D.
Professor of Physics
B.S., Stanford University, 2003; Ph.D., Princeton University, 2009. Assistant Professor, Caltech, 2012-18; Professor, 2018-.

Linda C Hsieh-Wilson, Ph.D.
Arthur and Marian Hanisch Memorial Professor of Chemistry
B.S., Yale University, 1990; Ph.D., University of California, 1996. Assistant Professor, Caltech, 2000-06; Associate Professor, 2006-10; Professor, 2010-2-17; Hanisch Professor, 2017--; HHMI Investigator, 2005-14.

Renyu Hu
Visiting Associate in Planetary Science

Alice S Huang
Senior Faculty Associate in Biology
B.A., Johns Hopkins University, 1961; M.S., 1963; Ph.D., 1966. M.A. h.c., Harvard University; D.Sci.h.c., Wheaton College; Mt. Holyoke College; Medical College of Pennsylvania. Faculty Associate, Caltech, 1997-2007; Senior Faculty Associate, 2007-.

Yunxia Huang
Visiting Associate in Planetary Science

Mario Hubert
Howard E. and Susanne C. Jessen Postdoctoral Instructor in Philosophy of Physics

Kenneth W Hudnut
Visiting Associate in Geophysics
Melany L Hunt, Ph.D.
Dotty and Dick Hayman Professor of Mechanical Engineering
B.S., University of Minnesota, 1983; M.S., University of California, 1985; Ph.D., 1987. Assistant Professor, Caltech, 1988-95; Associate Professor, 1995-2001; Professor, 2001-2011; Kenan Professor, 2012-13; Hayman Professor, 2013-; Executive Officer, 2002-2007; Vice Provost, 2007-14.

Dotty and Dick Hayman Professor of Mechanical Engineering
B.S., University of Minnesota, 1983; M.S., University of California, 1985; Ph.D., 1987. Assistant Professor, Caltech, 1988-95; Associate Professor, 1995-2001; Professor, 2001-2011; Kenan Professor, 2012-13; Hayman Professor, 2013-; Executive Officer, 2002-2007; Vice Provost, 2007-14.

Nicholas Hutchins
Visiting Associate in Aerospace

Nicholas R (Nick) Hutzel, Ph.D.
Assistant Professor of Physics
B.S., California Institute of Technology, 2007; A.M., Harvard University, 2009; Ph.D., 2014. Visiting Associate, Caltech, 2017; Assistant Professor, 2017-.

Sonjong Hwang
Lecturer in Chemistry

Jozsef Illy
Visiting Associate in History

Susil In
Visiting Associate in Environmental Science and Engineering

Andrew P Ingersoll, Ph.D.
Professor of Planetary Science

Philip (Phil) Isett, Ph.D.
Professor of Mathematics
B.S., University of Maryland, 2008; Ph.D., Princeton University, 2013; Caltech, Assistant Professor, 2018-19; Professor, 2019-.

Rustem I. Ismagilov, Ph.D.
Ethel Wilson Bowles and Robert Bowles Professor of Chemistry and Chemical Engineering; Director of the Jacobs Institute for Molecular Engineering for Medicine
B.S., Higher Chemical College of the Russian Academy of Sciences, 1994; Ph.D., University of Wisconsin, Madison, 1998. Miles Professor, Caltech, 2011-13; Bowles Professor, 2013-; Director, Jacobs Institute, 2013-.

Wilfred D (Bill) Iwan, Ph.D.
Professor of Applied Physics, Emeritus
B.S., Caltech, 1957; M.S., 1958; Ph.D., 1961. Assistant Professor, 1964-67; Associate Professor, 1967-72; Professor, 1972-2004; Professor Emeritus, 2004-. Executive Officer for Civil Engineering and Applied Mechanics, 1980-86.

Jennifer M Jackson, Ph.D.
Professor of Mineral Physics
B.S., University of Illinois (Urbana-Champaign), 1999; M.S., University of Notre Dame, 2000; Ph.D., University of Illinois, 2005. Assistant Professor of Geophysics, Caltech, 2007-09; Assistant Professor of Mineral Physics, 2009-12; Professor, 2012-.

Brian R Jacobson, Ph.D.
Professor of Visual Culture
B.S., Appalachian State University, 2002; M.S., Massachusetts Institute of Technology, 2005; Ph.D., University of Southern California, 2011. Caltech, 2020-.

Jennifer A Jahner, Ph.D.
Professor of English

Robyn M Javier
Lecturer in Engineering

Paul C Jennings, Ph.D.
Professor of Civil Engineering and Applied Mechanics, Emeritus
B.S., Colorado State University, 1958;
M.S., Caltech, 1960; Ph.D., 1963.  
Research Fellow in Civil Engineering,  
1965; Assistant Professor of Applied  
Mechanics, 1966-68; Associate Profes- 
sor, 1968-72; Professor, 1972-77; Pro- 
fessor of Civil Engineering and Applied  
Professor Emeritus, 2002-04; 2007-.  
Executive Officer for Civil Engineering  
and Applied Mechanics, 1975-80;  
Chairman, Division of Engineering and  
Applied Science, 1985-89; Vice Presi- 
dent and Provost, 1989-95; Acting Vice  
President for Business and Finance,  
Grant J Jensen, Ph.D.  
Professor of Biophysics and Biology  
B.S., Brigham Young University, 1994;  
Ph.D., Stanford University, 1999.  
Assistant Professor, Caltech, 2002-  
2008; Associate Professor, 2008-10;  
Professor, 2010-; HHMI Investigator,  

Jack L Jewell  
Visiting Associate in Applied Physics  
and Materials Science  
B.S., University of Florida, 1975; M.S.,  
Florida Institute of Technology, 1977;  
M.S., University of Arizona, 1981;  

Lawrence J Jin, Ph.D.  
Assistant Professor of Finance  
B.S., Tsinghua University China, 2005;  
M.S., California Institute of Technology,  
2006; Ph.D., Yale University, 2015.  
Caltech, 2015-.

William L Johnson, Ph.D.  
Ruben F. and Donna Mettler Professor of  
Engineering and Applied Science,  
Emeritus  
B.A., Hamilton College, 1970; Ph.D.,  
Caltech, 1975. Assistant Professor of  
Materials Science, 1977-80; Associate  
Professor, 1980-84; Professor, 1984-  
89; Mettler Professor, 1989-2019;  
Mettler Professor Emeritus, 2019-.

Lucile M (Lucy) Jones  
Visiting Associate in Geophysics  
A.B., Brown University, 1976; Ph.D.,  
Massachusetts Institute of Technol- 
y, 1981. Research Associate, U.S.  
Geological Survey, 1984-. Caltech,  

Rajeev Joshi  
Lecturer in Computing and  
Mathematical Sciences  
B.S., Indian Institute of Technology  
(Bombay), 1990; M.S., The University  
of Texas (Austin), 1994; Ph.D., 1999.  
Caltech, 2008; 2010-11; 2013; 2015;  
2019.

Catherine Jurca, Ph.D.  
Professor of English  
B.A., University of California, 1987;  
M.A., Johns Hopkins University, 1992;  
Ph.D., 1995. Instructor, Caltech, 1995;  
Assistant Professor, 1995-2001; Asso- 
ciate Professor of Literature, 2001-04;  
Associate Professor of English,  
2004-10; Professor, 2010-; Master of  
Student Houses, 2002-09; Executive  
Officer, 2014-18.

Se-Jong Kahng  
Visiting Associate in Applied Physics  
and Materials Science  
B.S., Seoul National University, 1992;  

Richard Kalantar Ohanian  
Lecturer in Electrical Engineering  
B.S., California Institute of Technology,  

Karanjit Kalsi  
Visiting Associate in Computing and  
Mathematical Sciences  
M. Eng., University of Sheffield,  
2006; Ph.D., Purdue University, 2010.  
Caltech, 2017-20.

Hiroo Kanamori, Ph.D.  
John E. and Hazel S. Smits Professor of  
Geophysics, Emeritus  
B.S., University of Tokyo, 1959; M.S.,  
1961; Ph.D., 1964. Research Fellow,  
Caltech, 1965-66; Professor, 1972-89;  
Smits Professor, 1989-2005; Smits  
Professor Emeritus, 2005-. Director,  
Seismological Laboratory, 1990-98.

Jeung Ku Kang  
Visiting Associate in Chemistry  
B.S., Seoul National University, 1992;  
M.S., Stanford University, 1999, Ph.D.,  

Anton N Kapustin  
Ph.D., Earle C. Anthony Professor of  
Theoretical Physics and Mathematics  
M.S., Moscow State University, 1993;  
Ph.D., Caltech, 1997. Assistant Pro- 
fessor, 2001-04; Associate Professor,  
2004-10; Professor, 2010-12; Earle C.  
Anthony Professor, 2012-.

Mansi M Kasiwal, Ph.D.  
Assistant Professor of Astronomy  
B.S., Cornell University, 2005; M.S.,  
Caltech, 2007; Ph.D., 2011. Visiting  
Associate, Caltech, 2014-15; Assistant  
Professor, 2015-.
Jonathan N Katz, Ph.D.
Kay Sugahara Professor of Social Sciences and Statistics
S.B., Massachusetts Institute of Technology, 1990; M.A., University of California (San Diego), 1992; Ph.D., 1995. Assistant Professor, Caltech, 1995-98; Associate Professor, 1998; 1999-2003; Professor, 2003-11; Sugahara Professor, 2012--; Executive Officer for the Social Sciences, 2007; Director, Linde Institute, 2013-14; Division Chair, 2007-14.

Nets H Katz, Ph.D.
International Business Machines Professor of Mathematics
B.A., Rice University, 1990; Ph.D., University of Pennsylvania, 1993. Professor, Caltech, 2013---; IBM Professor, 2016--.

Alexander Kechris, Ph.D., D.h.c.
Professor of Mathematics
M.S., National Technical University, Athens, 1969; Ph.D., University of California, Los Angeles, 1972; D.h.c., University of Athens. Assistant Professor, Caltech, 1974-76; Associate Professor, 1976-81; Professor, 1981--; Executive Officer for Mathematics, 1994-97.

Daniel (Dan) Kennedy
Visiting Associate in Neuroscience

Mary B Kennedy, Ph.D.
The Allen and Lenabelle Davis Professor of Biology
B.S., St. Mary’s College, 1969; Ph.D., Johns Hopkins University, 1975. Assistant Professor, Caltech, 1981-84; Associate Professor, 1984-92; Professor, 1992-2002; Davis Professor, 2002--.

Daniel J Kevles, Ph.D.
J. O. and Juliette Koepfli Professor of the Humanities, Emeritus

Eugenia Khorosheva
Lecturer in Biology and Biological Engineering

Farbod Khoshnoud
Visiting Associate in Aerospace

Collin D Kieffer
Visiting Associate in Biology and Biological Engineering

D R (Rod) Kiewiet, Ph.D.
Professor of Political Science
B.A., University of Iowa, 1974; Ph.D., Yale University, 1980. Assistant Professor, Caltech, 1979-82; Associate Professor, 1982-89; Professor, 1989--; Dean of Students, 1992-96; Dean of Graduate Studies, 2000-02; Dean of Undergraduate Students, 2011-14.

Hyung Min (Hyungmin) Kim
Visiting Associate in Biology and Biological Engineering

H. J Kimble, Ph.D.; D.Sc.h.c.
William L. Valentine Professor of Physics
B.S., Abilene Christian University, 1971; M.S., University of Rochester, 1973; Ph.D., 1978; D.Sc.h.c., Niels Bohr Institute, University of Copenhagen. Professor, Caltech, 1989--; Valentine Professor, 1997--.

Richard E Kipling
Lecturer in Journalism

Evan N Kirby, Ph.D.
Assistant Professor of Astronomy
B.S., Stanford University, 2004; M.S., University of California, Santa Cruz, 2006; Ph.D., 2009. Caltech, 2014--.

Joseph (Joe) Kirschvink, Ph.D.
Nico and Marilyn Van Wingen Professor of Geobiology
B.S., M.S., Caltech, 1975; M.A., Princeton University, 1978; Ph.D., 1979. Assistant Professor, Caltech, 1981-87; Associate Professor, 1987-92; Professor, 1992-2004; Van Wingen Professor, 2004--.
Alexei Kitaev, Ph.D.
Ronald and Maxine Linde Professor of Theoretical Physics and Mathematics
Dipl., Moscow Institute of Physics and Technology, 1986; Ph.D., Landau Institute for Theoretical Physics, 1989. Visiting Associate, Caltech, 1998-99; Lecturer, 1998-99; Senior Research Associate, 2001-02; Professor, 2002-13; Linde Professor, 2013-.

Oscar Kivinen
Olga Taussky and John Todd Instructor in Mathematics
M.S., Aalto University, 2014; Ph.D., University of California (Davis), 2019. Caltech 2019 -.

Jean Patrice M (Patrice) Klein
Visiting Associate in Environmental Science and Engineering

Wolfgang G Knauss, Ph.D.
Theodore von Karman Professor of Aeronautics and Applied Mechanics, Emeritus
B.S., Caltech, 1958; M.S., 1959; Ph.D., 1963. Research Fellow in Aeronautics, 1963-65; Assistant Professor, 1965-69; Associate Professor, 1969-78; Professor, 1978-82; Professor of Aeronautics and Applied Mechanics, 1982-2001; von Karman Professor, 2001-2004; von Karman Professor Emeritus, 2004-.

Heather A Knutson, Ph.D.
Professor of Planetary Science
B.Sc., Johns Hopkins University, 2004; A.M., Harvard University, 2006; Ph.D., 2009. Visiting Associate, Caltech, 2010-11; Assistant Professor, 2011-17; Professor, 2017-.

Dennis M Kochmann
Visiting Associate in Aerospace
Dipl.-Ing, Ruhr-University, Bochum, 2006; M.S., University of Wisconsin-Madison, 2006; Dr.-Ing, Ruhr-University, Bochum, 2009. Assistant Professor, Caltech, 2011-16; Professor, 2016-19; Visiting Associate, 2019-20.

Monica D Kohler
Research Professor of Mechanical and Civil Engineering

Diana L Kormos-Buchwald, Ph.D.
Robert M. Abbey Professor of History B.Sc., Technion-Israel Institute of Technology, 1981; M.Sc., Tel Aviv University, 1983; A.M., Harvard University, 1985; Ph.D., 1990. Instructor, Caltech, 1989-90; Assistant Professor, 1990-96; Associate Professor, 1996-2005; Professor, 2005-2017; Abbey Professor, 2018-.

Julia A Kornfield, Ph.D.
Elizabeth W. Gilloon Professor of Chemical Engineering
B.S., Caltech, 1983; M.S., 1984; Ph.D., Stanford University, 1988. Assistant Professor, Caltech, 1990-95; Associate Professor, 1995-2001; Professor, 2001-19; Gilloon Professor, 2020-.

Victoria Kostina, Ph.D.
Professor of Electrical Engineering
B.S., Moscow Institute of Physics and Technology, 2004; M.S., University of Ottawa, 2006; Ph.D., Princeton University, 2013. Assistant Professor, Caltech, 2014-2020; Professor, 2020-.

J. M (Morgan) Kousser, Ph.D.
Professor of History and Social Science, Emeritus
A.B., Princeton University, 1965; M.Phil., Yale University, 1968; Ph.D., 1971. Instructor in History, Caltech, 1969-71; Assistant Professor, 1971-74; Associate Professor, 1974-79; Professor, 1979-80; Professor of History and Social Science, 1980-2013, 2018-20; Kenan Professor, 2013-18; Professor, Emeritus, 2020-.

Anne J Kox
Visiting Associate in History

Gerhard J (John) Krige
Francis Bacon Visiting Professor of History
Shrinivas R (Shri) Kulkarni, Ph.D., D.h.c.  
George Ellery Hale Professor of Astronomy and Planetary Science  
M.S., Indian Institute of Technology, 1978; Ph.D., University of California, 1983; D.h.c., Radboud University.  

Akiko Kumagai  
Research Professor of Biology  
B.S., Kyoto University (Japan), 1979; Ph.D., 1986. Senior Research Fellow, Caltech, 1989-95; Senior Research Associate, 1996-2014; Research Professor, 2014-.

Oh Hoon Kwon  
Visiting Associate in Chemistry  

Jenijoy La Belle, Ph.D.  
Professor of English, Emeritus  
B.A., University of Washington, 1965; Ph.D., University of California (San Diego), 1969. Assistant Professor of English, Caltech, 1969-76; Associate Professor, 1977-80; Associate Professor of Literature, 1980-88; Professor of Literature, 1988-2004; Professor of English, 2004-2007; Professor Emeritus, 2007-.

Paul F La Porte  
Visiting Associate in Chemical Engineering  

Jay A Labinger  
Faculty Associate in Chemistry  
B.S., Harvey Mudd College, 1968; Ph.D., Harvard University, 1974, Caltech, 1988-1996; Faculty Associate, 2006--; Lecturer, 2008-11.

Michael P Lamb, Ph.D.  
Professor of Geology  
B.S., University of Minnesota, 2001; M.S., University of Washington, 2004; Ph.D., University of California, Berkeley, 2008. Assistant Professor, Caltech, 2009-14; Professor, 2014-.

Robert J Lang  
Visiting Associate in Mechanical and Civil Engineering  

Nadia Lapusta, Ph.D.  
Lawrence A. Hanson, Jr., Professor of Mechanical Engineering and Geophysics  
Dipl., Kiev State University, 1994; M.S., Harvard University, 1996; Ph.D., 2001. Assistant Professor of Mechanical Engineering, Caltech, 2002-03; Assistant Professor of Mechanical Engineering and Geophysics, 2003-08; Associate Professor, 2008-10; Professor, 2010-19; Hanson Professor, 2019-.

Julien M Laurat  
Visiting Associate in Physics  

Eugene Lavretsky  
Lecturer in Computing and Mathematical Sciences  

Kirill Lazebnik  
Harry Bateman Instructor in Mathematics  
B.A., State University of New York at Geneseo, 2012; Ph.D., Stony Brook University, 2017; Caltech, 2017-20.

Joseph Lazio  
Visiting Associate in Physics  

Jared R Leadbetter, Ph.D.  
Professor of Environmental Microbiology  
B.S., Goucher College, 1991; Ph.D., Michigan State University, 1997. Assistant Professor, Caltech, 2000-06; Associate Professor, 2006-10; Professor, 2010-.

John O Ledyard, Ph.D., D.Lit.h.c.  
Allen and Lenabelle Davis Professor of Economics and Social Sciences, Emeritus  
A.B., Wabash College, 1963; M.S., Purdue University, 1965; Ph.D., 1967; D.Lit.h.c., Purdue University. Professor, Caltech, 1985-2016; Davis Professor, 2002-16; Davis Professor, Emeritus, 2016-. Executive Officer for the Social Sciences, 1989-92; Chair, Division of

Trustees, Administration, Faculty
Brian Lee
Visiting Associate in Biology and Biological Engineering
B.S., University of Southern California, 1999; Ph.D., Caltech, 2006; M.D., University of Southern California, 2008. Caltech, 2013-21.

Darrin J Lee
Visiting Associate in Chemical Engineering
B.S., Brown University, 2002; Ph.D., University of California (Davis), 2013, M.D., University of California (Irvine), 2009. Caltech, 2018-20.

Eunsung Lee
Visiting Associate in Chemistry

Patrick A Lee
Visiting Associate in Theoretical Physics

Dennis Lehmkuhl
Visiting Associate in History and Philosophy of Science

Anthony Leonard, Ph.D.
Theodore von Karman Professor of Aeronautics, Emeritus

Henry A Lester, Ph.D.
Professor of Biology

Carmel Levitan
Visiting Associate in Biology and Biological Engineering

Daniel Lewis
Lecturer in History

Nathan S (Nate) Lewis, Ph.D.
George L. Argyros Professor and Professor of Chemistry
B.S., Caltech, 1977; M.S., 1977; Ph.D., Massachusetts Institute of Technology, 1981. Associate Professor, Caltech, 1988-91; Professor, 1991-2001; Argyros Professor, 2002-.

Scott M Lewis
Visiting Associate in Applied Physics and Materials Science

Chen Li
Visiting Associate in Applied Physics and Materials Science

Rengui Li
Visiting Associate in Applied Physics and Materials Science
B.S., Xiamen University, 2009; Ph.D., Dalian Institute of Chemical Physics, 2014. Caltech, 2019-20.

Yongle Li
Visiting Associate in Chemistry
B.S., Tianjin University, 2006; Ph.D., Nanjing University, 2011. Caltech, 2019-20.

Kenneth G Libbrecht, Ph.D.
Professor of Physics
B.S., Caltech, 1980; Ph.D., Princeton University, 1984. Visiting Associate in Solar Astronomy, Caltech, 1984; Assistant Professor of Astrophysics, 1984-89; Associate Professor, 1989-95; Professor of Physics, 1995-. Executive Officer, 1997-13.

Stephen B Liggett
Visiting Associate in Biology and Biological Engineering

Boon Lim
Lecturer in Aerospace
B.S., University of Michigan, 1999;

Dariusz C (Darek) Lis
Visiting Associate in Physics

E J (John) List, Ph.D.
Professor of Environmental Engineering Science, Emeritus
B.E., University of Auckland, 1961; M.E., 1962; Ph.D., Caltech, 1965. Research Fellow, 1965-66; Assistant Professor, 1969-72; Associate Professor, 1972-78; Professor, 1978-97; Professor Emeritus, 1997-. Executive Officer for Environmental Science, 1980-85.

Charles Y Liu
Visiting Associate in Biology and Biological Engineering
B.S.E., University of Michigan (Ann Arbor), 1987; Ph.D., Rice University, 1993; M.D., Yale University School of Medicine, 1996. Resident Physician, University of Southern California, Keck School of Medicine, 1996-. Caltech, 2002-11; 2014-20.

Junjie Liu
Visiting Associate in Environmental Science and Engineering

Yang Liu
Visiting Associate in Geochemistry
B.S., Chengdu University of Technology, 1995; M.S., University of Michigan, 1998; Ph.D., University of Michigan, 2003. Lecturer, 2015; Caltech, 2013-22.

Alexis Livanos
Visiting Associate in Aerospace

Joerg F Loeffler
Visiting Associate in Applied Physics and Materials Science
M.S., University of Saarbrucken (Germany), 1994; Ph.D., Paul Scherrer Institute (Switzerland), 1998. Assistant Professor, University of California (Davis), 2001-. Assistant Professor, ETH Zurich, 2003. Caltech, 2002-04; 2017-20.

Carlos Lois
Research Professor of Biology
M.D., University of Valencia, 1991; Ph.D., Rockefeller University, 1995. Caltech, Visiting Associate, 2014-15; Research Professor 2015-.

Jose Carlos Lopez Vazquez
Visiting Associate in Applied and Computational Mathematics

Gabriel Lopez-Moctezuma Jassan, Ph.D.
Assistant Professor of Political Science, B.A., Instituto Tecnologico Automomo de Mexico, 2007; M.A.; Princeton University, 2012; Ph.D., 2016. Caltech, 2017-.

Gary A Lorden, Ph.D.
Professor of Mathematics, Emeritus
B.S., Caltech, 1962; Ph.D., Cornell University, 1966. Assistant Professor, Caltech, 1968-71; Associate Professor, 1971-77; Professor, 1977-2009; Professor Emeritus, 2009-. Dean of Students, 1984-88; Vice President for Student Affairs, 1989-98; Acting Vice President, 2002; Executive Officer for Mathematics, 2003-2006.

Steven H Low, Ph.D.
Frank J. Gilloon Professor of Computing and Mathematical Sciences and Electrical Engineering
B.S., Cornell University, 1987; M.S., University of California, 1989; Ph.D., 1992. Associate Professor, Caltech, 2000-06; Professor, 2006-18; Gilloon Professor, 2018-.

Jack Lutz
Visiting Associate in Computing and Mathematical Sciences

Robyn Lutz
Visiting Associate in Computing and Mathematical Sciences
Sarah A MacLean
Lecturer in Biology and Biological Engineering

Douglas G (Doug) MacMartin
Visiting Associate in Computing and Mathematical Sciences

Urmila M Mahadev, Ph.D.
Assistant Professor of Computing and Mathematical Sciences
B.S., University of Southern California, 2010; Ph.D., University of California, Berkeley, 2018. Visiting Associate, Caltech, 2019-20; Assistant Professor, 2020-.

Walid Majid
Visiting Associate in Physics

Nikolai Makarov, Ph.D.
Richard Merkin Distinguished Professor of Mathematics
B.A., Leningrad University, 1982; Ph.D., LOMI Mathematics Institute (Leningrad), 1986. Visiting Professor, Caltech, 1991; Professor, 1991-13; Merkin Professor, 2013-.

Karol Makuch
Visiting Associate in Chemical Engineering

H M (Chinthaka) Mallikarachchi
Visiting Associate in Aerospace

Adam Mamelak
Visiting Associate in Biology

Oscar Mandel, Ph.D.
Professor of Literature, Emeritus
B.A., New York University, 1947; M.A., Columbia University, 1948; Ph.D., Ohio State University, 1951. Visiting Associate Professor of English, Caltech, 1961-62; Associate Professor, 1962-68; Professor, 1968-80; Professor of Literature, 1980-2003; Professor Emeritus, 2003-.

Elena Mantovan, Ph.D.
Professor of Mathematics
Laurea, University of Padova, 1995; M.A., Harvard University, 1998; Ph.D., 2002. Assistant Professor, Caltech, 2005-10; Associate Professor, 2010; Professor, 2010--; Executive Officer, 2016-19.

Uri M Maoz
Visiting Associate in Biology and Biological Engineering

Alireza Marandi, Ph.D.
Assistant Professor of Electrical Engineering and Applied Physics
B.S., University of Tehran, 2006; M.S., University of Victoria, 2008; Ph.D., Stanford University, 2013. Visiting Associate, Caltech, 2017-18; Assistant Professor, 2018-.

Matilde Marcolli, Ph.D.
Robert F. Christy Professor of Mathematics and Computing and Mathematical Sciences
Laurea, University Degli Studi, 1993; M.Sc., University of Chicago, 1994; Ph.D., 1997. Caltech, Professor, 2008-19, Christy Professor, 2019-.

Rudolph A (Rudy) Marcus, Ph.D.
Nobel Laureate, D.Sc.h.c., Fil.Dr.h.c., D.h.c.
John G. Kirkwood and Arthur A. Noyes Professor of Chemistry
B.Sc., McGill University, 1943; Ph.D., 1946; D.Sc.h.c., University of Chicago; McGill University; Polytechnic University; University of Oxford; University of New Brunswick; Queen’s University; University of North Carolina (Chapel Hill); University of Illinois; Technion-Israel Institute of Technology; Universidad Politecnica de Valencia; University of Waterloo; Fil.Dr.h.c., Gothenburg University; D.h.c., Yokohama National University; Northwestern University. Noyes Professor, Caltech, 1978-2012; Kirkwood-Noyes Professor, 2013-.
Simone Marras
Visiting Associate in Environmental Science and Engineering

Alain J Martin, Ph.D.
Professor of Computer Science, Emeritus
B.S., University of Marseille, 1965; Ing., Polytechnic Institute (Grenoble), 1969. Visiting Assistant Professor, Caltech, 1981-83; Visiting Associate Professor, 1983; Associate Professor, 1983-86; Professor, 1986-2016; Professor, Emeritus, 2016-. Executive Officer, 1994-97.

Christopher Martin, Ph.D.
Professor of Physics
B.A., Oberlin College, 1978; Ph.D., University of California, 1986. Caltech, 1993-.

Sami F Masri
Visiting Associate in Mechanical and Civil Engineering

Dimitri P Mawet, Ph.D.
Professor of Astronomy; Jet Propulsion Laboratory Research Scientist
Dipl., University of Liege, 2002; M.Phil., 2004; Ph.D., 2006. Caltech, Associate Professor, 2015-2019; Professor, 2019-. Jet Propulsion Laboratory Research Scientist, 2015-.

Stephen L (Steve) Mayo, Ph.D.
Bren Professor of Biology and Chemistry
B.S., Pennsylvania State University, 1983; Ph.D., Caltech, 1987. Senior Research Fellow, Caltech, 1991-92; Assistant Professor, 1992-98; Associate Professor, 1998-2003; Professor, 2003-07; Bren Professor, 2007-; HHMI Investigator, 1994-07; Executive Officer for Biochemistry and Molecular Biophysics, 2004-07; Vice Provost, 2007-10; Chair, Biology and Biological Engineering, 2010-20; Bowes Jr. Leadership Chair, 2012-20.

Aaron Mazel-Gee
Sherman Fairchild Instructor in Mathematics
B.S., Brown University, 2009; M.S., 2009; Ph.D., University of California (Berkeley) 2016. Caltech 2020-23.

Sarkis Mazmanian, Ph.D.
Luis B. and Nelly Soux Professor of Microbiology; Investigator, Heritage Medical Research Institute
B.S., University of California (Los Angeles), 1995; Ph.D., 2002. Assistant Professor, Caltech, 2006-12; Professor, 2012-14; Soux Professor, 2014-; HMRI Investigator, 2015-.

Daniel (Dan) McClleese
Visiting Associate in Environmental Science and Engineering

Beverley J McKeon, Ph.D.
Theodore von Karman Professor of Aeronautics

Basil V (Vincent) McCoy, Ph.D.
Professor of Theoretical Chemistry, Emeritus
B.S., Nova Scotia Technical University, 1960; Ph.D., Yale University, 1964. Noyes Research Instructor in Chemistry, Caltech, 1964-66; Assistant Professor of Theoretical Chemistry, 1967-69; Associate Professor, 1969-75; Professor, 1975-2016; Professor Emeritus, 2016-.

Carver Mead, Ph.D., D.Sc.h.c., D.h.c.
Gordon and Betty Moore Professor of Engineering and Applied Science, Emeritus
B.S., Caltech, 1956; M.S., 1957; Ph.D., 1960; D.Sc.h.c., University of Lund (Sweden); D.h.c., University of Southern California. Instructor in Electrical Engineering, Caltech, 1958-59; Assistant Professor, 1959-62; Associate Professor, 1962-67; Professor, 1967-77; Professor of Computer Science and Electrical Engineering, 1977-80; Moore Professor of Computer Science, 1980-92; Moore Professor of Engineering
Simona Mei
*Visiting Associate in Astronomy*

David L Meier
*Visiting Associate in Astronomy*

Daniel I (Dan) Meiron, Ph.D.
*Fletcher Jones Professor of Aeronautics and Applied and Computational Mathematics*

Markus Meister, Ph.D.
*Anne P. and Benjamin F. Biaggini Professor of Biological Sciences; Executive Officer for Neurobiology*
Dipl., Technische Universität München, 1980; Ph.D., Caltech, 1987. Moore Distinguished Scholar, Caltech, 2004; Professor, 2012-13; Hansson Professor, 2013-15; Biaggini Professor, 2015-; Executive Officer, 2017-.

Michael Mello
*Teaching Professor of Mechanical and Civil Engineering*
B.S., Bridgewater State College, 1985; M.S., University of Rochester, 1988; Ph.D., Caltech, 2012. Lecturer in Mechanical and Civil Engineering, 2014-2020; Teaching Professor of Mechanical and Civil Engineering, 2020-.

Gary H Menary
*Visiting Associate in Chemical Engineering*

Jeffrey M (Jeff) Mendez
*Lecturer in Chemistry*

Massimo Meneghetti
*Visiting Associate in Physics*

Trevor C Merrill
*Lecturer in French*

Richard A Mewaldt
*Research Professor of Physics*
B.A., Lawrence University, 1965; M.A., Washington University (St. Louis), 1967; Ph.D., 1971. Research Fellow, Caltech, 1971-75; Senior Research Fellow, 1975-81; Lecturer, 1987; Research Professor, 1981-.

Elliot Meyerowitz, Ph.D., D.h.c., D.Sc.h.c.
*George W. Beadle Professor of Biology; Investigator, Howard Hughes Medical Institute*
A.B., Columbia University, 1973; M.Phil., Yale University, 1975; Ph.D., 1977; D.h.c., École Normale Supérieure; D.Sc.h.c., Yale University. Assistant Professor, Caltech, 1980-85; Associate Professor, 1985-89; Professor, 1989-2002; Beadle Professor, 2002-; HHMI Investigator, 2013-; Executive Officer, 1995-2000; Chair, Division of Biology, 2000-10.

Charles E Miller
*Visiting Associate in Environmental Science and Engineering*

Thomas F (Tom) Miller, Ph.D.
*Professor of Chemistry*
B.S., Texas A&M University, 2000; Ph.D., University of Oxford, 2005. Assistant Professor, Caltech, 2008-13; Professor 2013-.

Bumki Min
*Visiting Associate in Mechanical and Civil Engineering*

Feng-Ying Ming
*Lecturer in Chinese*
B.A., Tamkang University (Taiwan),
Trustees, Administration, Faculty


Austin J Minnich, Ph.D.
Professor of Mechanical Engineering and Applied Physics
B.S., University of California, Berkeley, 2006; M.S., Massachusetts Institute of Technology, 2008; Ph.D., 2011. Assistant Professor, Caltech, 2011-17, Professor, 2017-.

Mohammad Mirhosseini
Assistant Professor of Electrical Engineering
B.S., University of Tehran, 2010; M.S., University of Rochester, 2013; Ph.D., 2015. Visiting Associate, Caltech, 2019-20; Assistant Professor, 2020-.

Betsy Mitchell
Director of Athletics, Physical Education and Recreation

Eric D Mjolsness
Visiting Associate in Biology and Biological Engineering
A.B., Washington University, 1980; Ph.D., Caltech, 1985. Principal Computer Scientist, Jet Propulsion Laboratory, 1998--; Associate Professor, University of California (Irvine), 2002-2009; Professor, University of California (Irvine), 2009-; Faculty Associate, Caltech, 2000-02; Moore Distinguished Scholar, 2010-11. Caltech, Visiting Associate, 2002-10; 2016-21.

Dean Mobbs, Ph.D.
Assistant Professor of Cognitive Neuroscience; Chen Scholar
B.S., University of Birmingham, 1999; Ph.D., University College London, 2008. Assistant Professor, Caltech, 2016--; Chen Scholar, 2019-.

James J (Jim) Morgan, Ph.D. D.Sc.h.c.
Marvin L. Goldberger Professor of Environmental Engineering Science, Emeritus
B.C.E., Manhattan College, 1954; M.S.E., University of Michigan, 1956; M.A., Harvard University, 1962; Ph.D., 1964; D.Sc.h.c., Manhattan College. Associate Professor of Environmental Health Engineering, Caltech, 1965-69; Professor, 1969-87; Goldberger Professor of Environmental Engineering Science, 1987-2000; Goldberger Professor Emeritus, 2000-. Academic Officer for Environmental Engineering Science, 1971-72; Dean of Students, 1972-75; Executive Officer for Environmental Engineering Science, 1974-80; 1993-96; Acting Dean of Graduate Studies, 1981-84; Vice President for Student Affairs, 1980-89.

Florian Mormann
Visiting Associate in Neuroscience

Derrick J Morton
Visiting Associate in Biology and Biological Engineering
B.S., Eastern Kentucky University, 2009; Ph.D., Clark Atlanta University, 2016. Caltech, 2020-21.

Hossein Mosallaei
Visiting Associate in Applied Physics and Materials Science

Olexei I Motrunich, Ph.D.
Professor of Theoretical Physics
B.S., University of Missouri (Columbia), 1996; Ph.D., Princeton University, 2001. Assistant Professor, Caltech, 2006-12; Professor, 2012-.

Duane O Muhleman, Ph.D.
Professor of Planetary Science, Emeritus
B.S., University of Toledo, 1953; Ph.D., Harvard University, 1963. Associate Professor, Caltech, 1967-71; Professor, 1971-97; Professor Emeritus, 1997-. Staff Member, Owens Valley Radio Observatory, 1967-.

Richard M Murray, Ph.D.
Thomas E. and Doris Everhart Professor of Control and Dynamical Systems and Bioengineering; William K. Bowes Jr. Leadership Chair, Division of Biology and Biological Engineering
B.S., Caltech, 1985; M.S., University of California, Berkeley, 1988; Ph.D., 1990. Assistant Professor of Mechanical Engineering, Caltech, 1991-97; Associate Professor, 1997-2000; Professor, 2000-05; Professor of Control and Dynamical Systems, 2005-06; Everhart Professor of Control and Dynamical Systems, 2006-09; Everhart Professor of Control and Dynamical Systems, 2006-09; Everhart Professor of Control and Dynamical Systems, 2006-09; Everhart Professor of Control and Dynamical Systems, 2006-09; Everhart Professor of Control and Dynamical Systems, 2006-09; Everhart Professor of Control and Dynamical Systems, 2006-09; Everhart Professor of Control and Dynamical Systems, 2006-09; Chair, Engineering and Applied Science, 2000-05; Director, Information Science and Technology, 2006-2009; Interim Chair, Engineering and Applied Science, 2008-09; Chair, Biology and Biological Engineering, 2020-; Bowes Leadership Chair, 2020-.
Hillary Mushkin
Research Professor of Art and Design in Engineering and Applied Science and the Humanities and Social Sciences

Paul Myrow
Visiting Professor of Geology

Stevan Nadj-Perge, Ph.D.
Assistant Professor of Applied Physics and Materials Science
M.S., Belgrade University, 2006; Ph.D., Delft University of Technology, 2010. Visiting Associate, Caltech, 2015; Assistant Professor, 2016-.

Vijay Natraj
Visiting Associate in Planetary Sciences
B.E., National University of Singapore, 1998; M.S. California Institute of Technology, 2004; Ph.D., 2008; Caltech, 2020-21.

Thomas A Neenan
Lecturer in Music

Paul S Nerenberg
Visiting Associate in Planetary Science

Dianne K Newman, Ph.D.
Gordon M. Binder/Amgen Professor of Biology and Geobiology; Executive Officer for Molecular Biology
B.A., Stanford University, 1993; Ph.D., Massachusetts Institute of Technology, 1997. Clare Booth Luce Assistant Professor, Caltech, 2000-05; Associate Professor, 2005-06; Professor, 2006-16; HHMI Investigator, 2005-16; Binder/Amgen Professor, 2016-; Davis Leadership Chair, 2017-20; Executive Officer, 2017-.

Harvey B Newman, Sc.D., D.h.c.,
Marvin L. Goldberger Professor of Physics
B.S., Massachusetts Institute of Technology, 1968; Sc.D., 1973; D.h.c., University Politehnica of Bucharest; Pavol Jozef Safarik University. Associate Professor, Caltech, 1982-90; Professor, 1990-17; Goldberger Professor, 2017-.

Dao Nguyen
Visiting Associate in Biology and Biological Engineering

Hien T Nguyen
Visiting Associate in Physics

Yi Ni, Ph.D.
Professor of Mathematics
B.S., Peking University, 2001; M.S., 2003; Ph.D., Princeton University, 2007. Assistant Professor, Caltech, 2009-15; Professor, 2015-.

Marc A Nicolet, Ph.D.
Professor of Electrical Engineering and Applied Physics, Emeritus
Ph.D., University of Basel, 1958. Assistant Professor of Electrical Engineering, Caltech, 1959-65; Associate Professor, 1965-73; Professor, 1973-88; Professor of Electrical Engineering and Applied Physics, 1988-98; Professor Emeritus, 1998-.

Kirby Nielsen, Ph.D.
Assistant Professor of Economics
B.A., Rice University, 2013; M.A., Ohio State University, 2014; Ph.D, 2018. Caltech, 2020-.

Gunter Niemeyer
Lecturer in Mechanical and Civil Engineering

Shouleh Nikzad
Lecturer in Medical Engineering; Visiting Associate in Astrophysics

Sven Nolte
Visiting Associate in Finance
Barbara B Oberg
Visiting Associate in History

John P O'Doherty, Ph.D.
Professor of Psychology
B.A., University of Dublin (Trinity College), 1996; D.Phil., University of Oxford, 2000. Assistant Professor, Caltech, 2004-07; Associate Professor, 2007-09; Professor, 2009-; Director, Caltech Brain Imaging Center, 2013-17.

Hirosi (Hiroyoshi) Oguri
Fred Kavli Professor of Theoretical Physics and Mathematics; Director, Burke Institute for Theoretical Physics
B.A., Kyoto University (Japan), 1984; M.A., 1986; Ph.D., University of Tokyo, 1989. Visiting Associate, Caltech, 1999-2000; Professor, 2000-07; Kavli Professor, 2007-; Deputy Chair, 2010-15; Director, 2014-.

Yuki Oka, Ph.D.
Professor of Biology and Chen Scholar
B.A., The University of Tokyo, 2002; Ph.D., 2007. Assistant Professor, Caltech, 2014-20; Professor, 2020-; Chen Scholar, 2019-.

Mitchio Okumura, Ph.D.
Professor of Chemical Physics
B.S., Yale University, 1979; M.S., 1979; C.P.G.S., University of Cambridge, 1980; Ph.D., University of California, 1986. Assistant Professor, Caltech, 1988-94; Associate Professor, 1994-2003; Professor, 2003-; Executive Officer, 2006-10.

Alison E Ondrus, Ph.D.
Assistant Professor of Chemistry
B.Sc., University of Alberta, 2003; Ph.D., Massachusetts Institute of Technology, 2009. Caltech, 2017-.

Christiane H Orcel
Lecturer in French
M.A., Princeton University, 1987; Ph.D., 1992. Instructor, Caltech, 1990-93; Lecturer, 1993-95; 1995-.

Peter C Ordeshook, Ph.D.
Professor of Political Science

Victoria J Orphan, Ph.D.
James Irvine Professor of Environmental Science and Geobiology; Alan V.C. Davis and Lenabelle Davis Leadership Chair, Center for Environmental Microbial Interactions; Director, Center for Environmental Microbial Interactions
B.A., University of California (Santa Barbara), 1994; Ph.D., 2002. Assistant Professor, Caltech, 2004-2010; Associate Professor, 2010; Professor, 2010-16; James Irvine Professor, 2016-; Davis Leadership Chair, 2020-; Director, 2020-.

Michael Ortiz, Ph.D.
Frank and Ora Lee Marble Professor of Aeronautics and Mechanical Engineering, Emeritus
B.S., Polytechnic University of Madrid, 1977; M.S., University of California, 1978; Ph.D., 1982. Sherman Fairchild Distinguished Scholar, Caltech, 1994-95; Professor of Aeronautics and Applied Mechanics, 1995-2000; Professor of Aeronautics and Mechanical Engineering, 2000-04; Hayman Professor, 2004-13; Marble Professor, 2013-20; Marble Professor Emeritus, 2020-.

Houman Owhadi, Ph.D.
Professor of Applied and Computational Mathematics and Control and Dynamical Systems
B.S., Ecole Polytechnique (France), 1994; M.S., Ecole Nationale des Ponts et Chaussées, 1997; Ph.D., Ecole Polytechnique Federale de Lausanne (Switzerland), 2001. Assistant Professor, Caltech, 2004-11; Professor, 2011-.

Lior S Pachter, Ph.D.
Bren Professor of Computational Biology and Computing and Mathematical Sciences
B.S., California Institute of Technology, 1994; Ph.D., Massachusetts Institute of Technology, 1999. Bren Professor, Caltech, 2017-.

Stephen Padin
Research Professor of Physics
B.Sc, University of Manchester, 1982; Ph.D, 1985. Caltech, 2009-.

Oskar J Painter, Ph.D.
John G Braun Professor of Applied Physics and Physics
B.S., University of British Columbia, 1994; M.S., Caltech, 1995; Ph.D., 2001. Visiting Associate, Caltech, 2001-02; Assistant Professor, 2002-08; Associate Professor, 2008-10; Professor, 2010-13; Braun Professor, 2013-; Executive Officer, 2010-13,
2019; Co-Director, Kavli Nanoscience Institute, 2011-13, 2015-19.

**Thomas R Palfrey, Ph.D.**
*Flintridge Foundation Professor of Economics and Political Science*

**Aristotelis Panagiotopoulos**
*Harry Bateman Instructor in Mathematics*
B.S., National Technical University of Athens, 2012; Ph.D., University of Illinois at Urbana-Campaign, 2017; Caltech, 2017-20.

**D A (Dimitri) Papanastassiou**
*Visiting Associate in Geochemistry*

**Michele Papucci**
*Research Professor of Theoretical Physics*
B.S., University of Pisa, 2001; M.S., Scuola Normale Superiore, Pisa, 2002; Ph.D., Scuola Normale Superiore, Pisa, 2009. Caltech 2019-.

**Sarthak Parikh**
*Olga Taussky and John Todd Instructor in Mathematics*

**Carl S Parker, Ph.D.**
*Professor of Biochemistry*
B.A., University of Rochester, 1973; Ph.D., Washington University (St. Louis), 1977. Assistant Professor of Chemical Biology, Caltech, 1981-87; Associate Professor, 1987-92; Professor, 1992-99; Professor of Biochemistry, 1999-. Executive Officer, 2000-04.

**Joseph Parker, Ph.D.**
*Assistant Professor of Biology and Biological Engineering*
B.S., Imperial College London, 2001; Ph.D. University of Cambridge, 2005. Visiting Associate, Caltech, 2017; Assistant Professor, 2017-.

**Alina Patke**
*Visiting Associate in Biology*

**Ryan B Patterson, Ph.D.**
*Professor of Physics*
B.S., Caltech, 2000; Ph.D., Princeton University, 2007. Assistant Professor, Caltech, 2010-17; Professor, 2017-.

**Volnei A Pedroni**
*Visiting Professor of Electrical Engineering*

**Sergio Pellegrino, Ph.D.**
*Joyce and Kent Kresa Professor of Aerospace and Civil Engineering; Jet Propulsion Laboratory Senior Research Scientist; Co-Director, Space-Based Solar Power Project*
Laurea, University of Naples, 1982; Ph.D., University of Cambridge, 1986. Professor, Caltech, 2007-2010; Kresa Professor, 2010-; Jet Propulsion Laboratory Senior Research Scientist, 2009-; Co-Director, 2016-.

**Leora Peltz**
*Visiting Associate in Applied Physics and Materials Science*

**Hagai B Perets**
*Visiting Associate in Theoretical Physics*

**Pietro Perona, Ph.D.**
*Allen E. Puckett Professor of Electrical Engineering*
Isabelle S Peter Lashgari Faghani, Research Professor of Biology and Biological Engineering Ph.D., University of Zurich, 2002. Caltech, 2011-.

Jonas C Peters, Ph.D. Bren Professor of Chemistry; Director, Resnick Sustainability Institute B.S., University of Chicago, 1993; Ph.D., Massachusetts Institute of Technology, 1998. Assistant Professor, Caltech, 1999-2004; Associate Professor, 2004-06; Professor, 2006-09; Bren Professor, 2010--; Executive Officer, 2013-15; Director, Resnick Sustainability Institute, 2015-.


Robert B Phillips, Ph.D. Fred and Nancy Morris Professor of Biophysics, Biology, and Physics B.S., University of Minnesota, 1986; Ph.D., Washington University, 1989. Clark Milikan Visiting Assistant Professor, Caltech, 1997; Professor, 2000-2011; Morris Professor, 2012-.


S (Sterl) Phinney, Ph.D. Professor of Theoretical Astrophysics B.S., Caltech, 1980; Ph.D., University of Cambridge, 1983. Assistant Professor, Caltech, 1985-91; Associate Professor, 1991-95; Professor, 1995--; Executive Officer, 2013-16.


Niles A Pierce, Ph.D. Professor of Applied and Computational Mathematics and Bioengineering B.S.E., Princeton University, 1993; D.Phil., University of Oxford, 1997. Assistant Professor of Applied Mathematics, Caltech, 2000; Assistant Professor of Applied and Computational Mathematics, 2000-04; Assistant Professor of Applied and Computational Mathematics and Bioengineering, 2004-06; Associate Professor, 2006-10; Professor, 2010--; Acting Executive Officer for Bioengineering, 2007; Executive Officer for Bioengineering, 2007-13; Executive Officer for Biological Engineering, 2013.

George Pigman, Ph.D. Professor of English A.B., Harvard College, 1973; M.Phil., Yale University, 1975; Ph.D. (Comparative Literature), 1977; Ph.D., (Psychoanalysis), Southern California Psychoanalytic Institute, 1989. Assistant Professor of English, Caltech, 1977-80; Assistant Professor of Literature, 1980-83; Associate Professor, 1983-93; Professor of Literature, 1993-2004; Professor of English, 2004--; Executive Officer for the Humanities, 2003-08.

Donald H (Donnie) Pinkston Lecturer in Computing and Mathematical Sciences and Schmidt Software Academy Instructor B.S., Caltech, 1998. Lecturer, 2005--.
Michael W Plesniak
Visiting Associate in Aerospace

Charles R Plott, Ph.D., D.Lit.h.c., D.h.c.
William D. Hacker Professor of Economics and Political Science
B.S., Oklahoma State University, 1961; M.S., 1964; Ph.D., University of Virginia, 1965; D.Lit.h.c., Purdue University; D.h.c., Universite Pierre Mendes. Professor of Economics, Caltech, 1971-87; Harkness Professor, 1987-2013; Hacker Professor, 2013-.

Leslie Plunkett
Lecturer in Art-Ceramics

Hugh D (David) Politzer, Ph.D.
Nobel Laureate
Richard Chace Tolman Professor of Theoretical Physics
B.S., University of Michigan, 1969; Ph.D., Harvard University, 1974. Visiting Associate, Caltech, 1975-76; Associate Professor, 1977-79; Professor, 1979-2004; Tolman Professor, 2004-. Executive Officer for Physics, 1986-88.

James E (Jay) Polk
Lecturer in Aerospace

Luciano Pomatto, Ph.D.
Assistant Professor of Economics

Frank C Porter, Ph.D.
Professor of Physics
B.S., Caltech, 1972; Ph.D., University of California, 1977. Research Fellow, Caltech, 1977-78; Weizmann Research Fellow, 1978-80; Senior Research Fellow, 1980-82; Assistant Professor, 1982-88; Associate Professor, 1988-94; Professor, 1994-.

John P Preskill, Ph.D.
Richard P. Feynman Professor of Theoretical Physics; Allen V.C. Davis and Lenabelle Davis Leadership Chair, Institute for Quantum Science and Technology
A.B., Princeton University, 1975; A.M., Harvard University, 1976; Ph.D., 1980. Associate Professor, Caltech, 1983-90; Professor, 1990-2002; MacArthur Professor, 2002-09; Feynman Professor, 2010-; Davis Leadership Chair, Institute for Quantum Science and Technology, 2017-.

Glenn Price
Band Director and Director of Performing and Visual Arts
B.S., University of Toronto, 1977; M.S., University of Rochester, 1981; Ph.D., 1986. Caltech, 2016-.

Thomas A (Tom) Prince, Ph.D.
Ira S. Bowen Professor of Physics; Allen V. C. Davis and Lenabelle Davis Leadership Chair, Keck Institute for Space Studies; Jet Propulsion Laboratory Senior Research Scientist; Director, W. M. Keck Institute for Space Studies
B.S., Villanova University, 1970; M.S., University of Chicago, 1972; Ph.D., 1978. Research Fellow, Caltech, 1979-80; Robert A. Millikan Research Fellow, 1980-82; Senior Research Fellow, 1982-83; Assistant Professor, 1983-86; Associate Professor, 1986-92; Professor, 1992-16; Bowen Professor, 2017-; Davis Leadership Chair, Keck Institute for Space Studies, 2017-; Associate Director for Advanced Computer Research, 1995-2001; Director, Keck Institute, 2006-; Chief Scientist, Jet Propulsion Laboratory, 2001-06; Jet Propulsion Laboratory Senior Research Scientist, 2006-; Deputy Executive Officer, 2013-16;

David Prober, Ph.D.
Professor of Biology
B.Sc., University of Manitoba, 1995; Ph.D., University of Washington, 2002. Assistant Professor, Caltech, 2009-2017; Professor, 2017-.

Carmie Puckett Robinson
Visiting Associate in Biology and Biological Engineering

Dale I Pullin, Ph.D.
Robert H. Goddard Professor of Aeronautics
B.Sc., University of Melbourne, 1966; B.E., University of Sydney, 1968; Ph.D., University of London (Imperial College), 1974. Visiting Associate, Caltech, 1990; Professor, 1991-2006, von Karman Professor, 2006-2017; Goddard Professor, 2017-.
You Qi
Sherman Fairchild Research Assistant Professor
B.S., Tsinghua University, China, 2006; M.P.H., Hong Kong University of Science and Technology, 2008; Ph.D., Columbia University, 2013. Caltech 2017-20.

Lulu Qian, Ph.D.
Professor of Bioengineering
B.E., Southeast University, 2002; Ph.D., Shanghai Jiao Tong University, 2007. Assistant Professor, Caltech, 2013-18; Professor, 2019-.

Steven R Quartz, Ph.D.
Professor of Philosophy
B.A., University of Western Ontario (Huron College), 1986; M.A., 1988; Ph.D., University of California (San Diego), 1993. Instructor, Caltech, 1998-99; Assistant Professor, 1999-2002; Associate Professor, 2002-10; Professor, 2010-.

Maksym Radziwill, Ph.D.
Professor of Mathematics
B.Sc., McGill University, 2009; Ph.D., Stanford University, 2013; Caltech, 2018-.

Amir R Rahmani
Lecturer in Aerospace

Eric M Rains, Ph.D.
Professor of Mathematics; Executive Officer for Mathematics
B.A., Case Western Reserve University, 1991; B.S., 1991; M.S., 1991; Ph.D., Harvard University, 1995. Visiting Associate and Lecturer, Caltech, 2002; Professor, 2007-; Executive Officer, 2019-.

Aditya Rajagopal
Visiting Associate in Electrical Engineering

Claire C Ralph
Lecturer in Computing and Mathematical Sciences

Dinakar Ramakrishnan, Ph.D.
Taussky-Todd-Lonergan Professor of Mathematics

Anamparambu N (Ram) Ramaprakash
Visiting Associate in Astronomy

Michael Ramsey-Musolf
Visiting Associate in Physics
Ph.D., Princeton University, 1989. Professor, University of Wisconsin (Madison), 2007-. Visiting Associate, Caltech, 2001; 2007-22; Senior Research Associate, 2001-07; Lecturer, 2005-06.

Antonio Rangel, Ph.D.
Bing Professor of Neuroscience, Behavioral Biology, and Economics; Head Faculty in Residence
B.Sc., Caltech, 1993; M.S., Harvard University, 1996; Ph.D., 1998. Instructor, Caltech, 1997-98; Visiting Associate, 2005-06; Associate Professor, 2006-10; Professor, 2010-13; Bing Professor, 2013-; Head Faculty in Residence, 2018-.

Vikram Ravi, Ph.D.
Assistant Professor of Astronomy
B.S., Australian National University, 2009; Ph.D., University of Melbourne, 2014. Visiting Associate, Caltech 2018-19; Assistant Professor, 2019-.

Guruswami (Ravi) Ravichandran, Ph.D., D.h.c.
John E. Goode, Jr., Professor of Aerospace and Mechanical Engineering; Otis Booth Leadership Chair, Division of Engineering and Applied Science
B.E., University of Madras (Regional Engineering College), 1981; Sc.M. (Solid Mechanics and Structures), Brown University, 1983; Sc.M. (Applied Mathematics), 1984; Ph.D., 1987; D.h.c., Paul Verlaine University. Assistant Professor, Caltech, 1990-95; Associate Professor, 1995-99; Professor, 1999-2005; Goode Professor, 2005-; Associate Director, 2008-09; Director, Graduate Aerospace Laboratories, 2009-15; Division Chair, 2015-; Otis Booth Leadership Chair, 2015-.

Animesh Ray
Visiting Associate in Biology and Biological Engineering
Anthony C Readhead, Ph.D.
Robinson Professor of Astronomy, Emeritus
B.Sc., University of Witwatersrand (South Africa), 1968; Ph.D., University of Cambridge, 1972. Research Fellow, Caltech, 1974-75; Senior Research Fellow, 1976-79; Research Associate, 1979-81; Professor of Radio Astronomy, 1981-90; Professor of Astronomy, 1990-2000; Rawn Professor, 2000-13; Robinson Professor Emeritus, 2015-; Director, Owens Valley Radio Observatory, 2006-2011; Jet Propulsion Laboratory Senior Research Scientist, 2006-15.

Carol W Readhead
Visiting Associate in Biology and Biological Engineering

Douglas C (Doug) Rees, Ph.D.
Roscoe Gilkey Dickinson Professor of Chemistry; Investigator, Howard Hughes Medical Institute; Dean of Graduate Studies
B.S., Yale University, 1974; Ph.D., Harvard University, 1980. Professor, Caltech, 1989-2004; Dickinson Professor, 2004-; HHMI Investigator, 1997-; Executive Officer for Chemistry, 2002-06; Executive Officer for Biochemistry and Molecular Biophysics, 2007-15; Dean of Graduate Studies, 2015-.

Gil Refael, Ph.D.
Taylor W. Lawrence Professor of Theoretical Physics
B.S., Tel Aviv University, 1997; M.S., 1998; Ph.D., Harvard University, 2003. Assistant Professor, Caltech, 2005-08; Associate Professor, 2008-11; Professor, 2011-17; Lawrence Professor, 2017-; Executive Officer, 2014-20.

Sarah E Reisman, Ph.D.
Professor of Chemistry; Investigator, Heritage Medical Research Institute; Executive Officer for Chemistry
B.A., Connecticut College, 2001; Ph.D., Yale University, 2006. Assistant Professor, Caltech, 2008-14; Professor, 2014-; HMRI Investigator 2015-; Executive Officer, 2015-.

David H Reitze
Research Professor of Physics; Executive Director of the LIGO Project

Jean-Paul Revel, Ph.D.
Albert Billings Ruddock Professor of Biology, Emeritus
B.Sc., University of Strasbourg, 1949; Ph.D., Harvard University, 1957. Professor of Biology, Caltech, 1971-78; Ruddock Professor, 1978-2006; Ruddock Professor Emeritus, 2006-; Dean of Students, 1996-2005.

Frank R Rice
Lecturer in Physics

Elon Rimon
Visiting Associate in Mechanical and Civil Engineering

Robert C Ritchie
Visiting Associate in History

Maxwell J Robb, Ph.D.
Assistant Professor of Chemistry
B.S., Colorado School of Mines, 2009; Ph.D., University of California, Santa Barbara, 2014. Caltech, 2017-.

Graca M Rocha
Visiting Associate in Physics
M.S., London University, 1992; Ph.D., University of Cambridge, 1997; Caltech, 2016-20.
Jennifer L Rodgers  
*Research Assistant Professor of History*  

Thomas Roesgen  
*Visiting Associate in Aerospace*  

Chris Roh  
*Lecturer in Medical Engineering*  

Richard W Roll, Ph.D.  
*Linde Institute Professor of Finance*  

Andrew Romero-Wolf  
*Visiting Associate in Astronomy*  

Alton D Romig  
*Visiting Associate in Applied Physics and Materials Science*  

Ares J Rosakis, Ph.D.  
*Theodore von Karman Professor of Aeronautics and Mechanical Engineering*  
B.Sc., University of Oxford, 1978; Sc.M., Brown University, 1980; Ph.D., 1982. Assistant Professor of Aeronautics and Applied Mechanics, Caltech, 1982-88; Associate Professor, 1988-93; Professor, 1993-2000; Professor of Aeronautics and Mechanical Engineering, 2000-04; von Karman Professor, 2004-; Director, Graduate Aerospace Laboratories, 2004-09; Division Chair, 2009-13; Otis Booth Leadership Chair, 2013-15.  

Phoebus Rosakis  
*Visiting Associate in Aerospace*  

Paul A Rosen  
*Visiting Associate in Geophysics*  

Rachel Rosen  
*Visiting Associate in Theoretical Physics*  

Robert A Rosenstone, Ph.D.  
*Professor of History, Emeritus*  
B.A., University of California (Los Angeles), 1957; Ph.D., 1965. Visiting Assistant Professor, Caltech, 1966-68; Assistant Professor, 1968-69; Associate Professor, 1969-75; Professor, 1975-2012; Professor Emeritus, 2012-. Executive Officer for the Humanities, 1983-86.  

Jean-Laurent Rosenthal, Ph.D.  
*Rea A. and Lela G. Axline Professor of Business Economics; Ronald and Maxine Linde Leadership Chair, Division of the Humanities and Social Sciences*  
B.A., Reed College, 1984; Ph.D., Caltech, 1988. Professor of Economics, 2006-2008; Axline Professor of Business Economics, 2008-; Executive Officer, 2007-13; Division Chair, 2014-; Linde Leadership Chair, 2016-.  

Zachary E Ross, Ph.D.  
*Assistant Professor of Geophysics*  
B.S., University of California, Davis, 2009; M.S., California Polytechnic State University, San Luis Obispo, 2011; Ph.D., University of Southern California, 2016. Caltech, 2019-.  

George R Rossman, Ph.D.  
*Professor of Mineralogy*  

Paul W Rothemund  
*Research Professor of Bioengineering, Computing and Mathematical Sciences, and Computation and Neural Systems*  
B.S., Caltech, 1994; Ph.D., University of Southern California, 2001. Visiting Associate, Caltech, 2001; Beckman Senior Research Fellow, 2001-04; Senior Research Fellow, Computation and Neural Systems and Computer.
Ellen Rothenberg, Ph.D.
Albert Billings Ruddock Professor of Biology
A.B., Harvard University, 1972; Ph.D., Massachusetts Institute of Technology, 1977. Assistant Professor, Caltech, 1982-88; Associate Professor, 1988-94; Professor, 1994-2007; Ruddock Professor, 2007-.

Ira Z Rothstein
Visiting Associate in Theoretical Physics

Michael L Roukes, Ph.D.
Frank J. Roshek Professor of Physics, Applied Physics, and Bioengineering
B.A., University of California (Santa Cruz), 1978; Ph.D., Cornell University, 1985. Associate Professor, Caltech, 1992-96; Professor of Physics, 1996-2002; Professor of Physics, Applied Physics, and Bioengineering, 2002-11; Abbey Professor, 2011-17; Roshek Professor, 2018-; Director, Kavli Nanoscience Institute, 2004-06; Co-Director, 2008-2013.

Damon S Russell
Visiting Associate in Electrical Engineering

Ueli Rutishauser
Visiting Associate in Biology and Bioengineering

David B Rutledge, Ph.D.
Kiyo and Eiko Tomiyasu Professor of Engineering, Emeritus
B.A., Williams College, 1973; M.A., University of Cambridge, 1975; Ph.D., University of California, 1980. Assistant Professor, Caltech, 1980-84; Associate Professor, 1984-89; Professor, 1989-2001; Tomiyasu Professor, 2001-18; Tomiyasu Professor, Emeritus, 2018-.

Executive Officer for Electrical Engineering, 1999-2002; Chair, Division of Engineering and Applied Science, 2005-08.

John E Sader
Visiting Associate in Physics

Kota Saito, Ph.D.
Professor of Economics
M.A., University of Tokyo, 2007; Ph.D., Northwestern University, 2011. Assistant Professor, Caltech, 2011-16; Professor, 2017-.

Rebecca Saive
Visiting Associate in Applied Physics and Materials Science

Jason B Saleeby, Ph.D.
Professor of Geology, Emeritus
B.S., California State University (Northridge), 1972; Ph.D., University of California (Santa Barbara), 1975. Associate Professor, Caltech, 1978-88; Professor, 1988-2015; Professor Emeritus, 2015-.

Konrad H Samwer
Visiting Associate in Applied Physics and Materials Science

Stanley P (Stan) Sander
Visiting Associate in Planetary Science

Annelia I Sargent, Ph.D., D.Sc.h.c.
Ira S. Bowen Professor of Astronomy, Emeritus
B.Sc., University of Edinburgh, 1963; M.S., Caltech, 1967; Ph.D., 1977; D.Sc.h.c., University of Edinburgh.
Research Fellow, 1977-79; Member of the Professional Staff, 1979-88; Senior Research Fellow, 1988-90; Senior Research Associate, 1990-98; Professor, 1998-2004, 2016-17; Rosen Professor, 2004-13; Bowen Professor, 2013-16; Bowen Professor, Emeritus, 2018-; Associate Director, Owens Valley Radio Observatory, 1992-96; Executive Director, 1996-98; Director, 1998-2007; Director, Interferometry Science Center, 2000-03; Director, Michelson Science Center, 2003; Vice President, 2007-15.

Charlyne B Sarmiento
Lecturer in Writing

Mary E Sarotte
Visiting Associate in History

Jonathan Sauder
Visiting Associate in Aerospace

Tilman Sauer
Visiting Associate in History

Michael Savage
Ahmanson Postdoctoral Instructor in History

Jack Sayers
Research Professor of Physics
Ph.D., California Institute of Technology, 2008. Caltech, 2016-.

Daniel Scharf
Bren Visiting Associate in Aerospace

Mark Scheel
Research Professor of Physics
Ph.D., Cornell University, 1996. Senior Research Fellow, Caltech, 2005-; Lecturer, 2005-06; 2014-15; Research Professor, 2015-.

Pablo Schenone
Lecturer in Economics

Axel Scherer, Ph.D.
Bernard Neches Professor of Electrical Engineering, Applied Physics and Physics
B.S., New Mexico Institute of Mining and Technology, 1981; M.S., 1982; Ph.D., 1985. Associate Professor, Caltech, 1993-95; Professor, 1995-2000; Neches Professor, 2000--; Director, Kavli Nanoscience Institute, 2006-08; Co-Director, 2008-11.

Mark J Schiefsky
Visiting Associate in Philosophy

Maarten Schmidt, Ph.D.
Francis L. Moseley Professor of Astronomy, Emeritus
Ph.D., University of Leiden, 1956; Sc.D., University of Yale, 1966. Associate Professor, Caltech, 1959-64; Professor, 1964-81; Institute Professor, 1981-87; Moseley Professor, 1987-96; Moseley Professor Emeritus, 1996-. Executive Officer for Astronomy, 1972-75; Chairman, Division of Physics, Mathematics and Astronomy, 1976-78; Director, Hale Observatories, 1978-80.

Judith C Schneider
Visiting Associate in Economics

Tapio Schneider, Ph.D.
Theodore Y. Wu Professor of Environmental Science and Engineering; Jet Propulsion Laboratory Senior Research Scientist
Vordipl., Albert-Ludwigs-Universitat Freiburg, 1993; Ph.D., Princeton University, 2001. Assistant Professor, Caltech, 2002-08; Associate Professor, 2008-09; Professor, 2009-10; Gilloon Professor, 2010-18; Wu Professor, 2018--;Director, Linde Center, 2011-12; Executive Officer, 2011-12; Jet Propulsion Laboratory Senior Research Scientist, 2016-.

Peter Schroeder, Ph.D.
Shaler Arthur Hanisch Professor of Computer Science and Applied and Computational Mathematics
B.S., Technical University of Berlin,
1987; M.S., Massachusetts Institute of Technology, 1990; M.A., Princeton University, 1992; Ph.D., 1994. Assistant Professor of Computer Science, Caltech, 1995-98; Associate Professor, 1998-2000; Associate Professor of Computer Science and Applied and Computational Mathematics, 2000-01; Professor, 2001-13; Hanisch Professor, 2013-; Division Deputy Chair, 2012-15; Acting Director of the Center for Advanced Computing Research, 2013-14.

Koen R Schruers
Visiting Associate in Neuroscience

Leonard J Schulman, Ph.D.
Professor of Computer Science
B.S., Massachusetts Institute of Technology, 1988; Ph.D., 1992. Associate Professor, Caltech, 2000-05; Professor, 2005-.

Keith C Schwab, Ph.D.
Professor of Applied Physics
B.A., University of Chicago, 1990; Ph.D., University of California, 1996. Associate Professor, Caltech, 2009-10; Professor, 2010-. Fletcher Jones Foundation Co-Director of the Kavli Nanoscience Institute, 2013-15.

John H Schwarz, Ph.D.
Harold Brown Professor of Theoretical Physics, Emeritus
A.B., Harvard College, 1962; Ph.D., University of California, 1966. Research Associate, Caltech, 1972-81; Senior Research Associate, 1981-85; Professor of Theoretical Physics, 1985-89; Brown Professor, 1989-2014; Brown Professor Emeritus, 2015-.

Nicholas Z (Nick) Scoville, Ph.D.
Francis L. Moseley Professor of Astronomy, Emeritus

Thayer Scudder, Ph.D.
Professor of Anthropology, Emeritus
A.B., Harvard College, 1952; Ph.D., Harvard University, 1960. Assistant Professor, Caltech, 1964-66; Associate Professor, 1966-69; Professor, 1969-2000; Professor Emeritus, 2000-.

Charles T (Chip) Sebens, Ph.D.
Assistant Professor of Philosophy

Kimberly A See, Ph.D.
Assistant Professor of Chemistry
B.S., Colorado School of Mines, 2009; Ph.D., University of California, Santa Barbara, 2014; Visiting Associate, Caltech, 2017; Assistant Professor, 2017-.

Michael D Seiffert
Visiting Associate in Astronomy

John H Seinfeld, Ph.D., D.Sc.h.c.
Louis E. Nohl Professor of Chemical Engineering
B.S., University of Rochester, 1964; Ph.D., Princeton University, 1967; D.Sc.h.c., University of Patras; Carnegie Mellon University; Clarkson University, Assistant Professor, Caltech, 1967-70; Associate Professor, 1970-74; Professor, 1974-; Nohl Professor, 1979-; Executive Officer for Chemical Engineering, 1974-90; Executive Officer for Environmental Science and Engineering, 2016-17; Chair, Division of Engineering and Applied Science, 1990-2000.

Daniel R (Dan) Semlow, Ph.D.
Assistant Professor of Biochemistry
B.S., University of Illinois, Urbana, 2005; Ph.D., University of Chicago, 2015. Visiting Associate, Caltech, 2019-2020, Assistant Professor, 2020-.

Peter C Sercel
Visiting Associate in Applied Physics and Materials Science

Alex L Sessions, Ph.D.
Professor of Geobiology
B.A., Williams College, 1991; M.Sc., Dartmouth College, 1996; Ph.D., Indiana University (Bloomington), 2001. Assistant Professor, Caltech, 2003-10; Associate Professor, 2010; Professor, 2010-. Officers and Faculty
Shu-ou Shan, Ph.D.
Altair Professor of Chemistry; Executive Officer for Biochemistry and Molecular Biophysics
B.S., University of Maryland, 1994; Ph.D., Stanford University, 2000.
Assistant Professor, Caltech, 2005-11; Professor, 2011-; Altair Professor, 2019-; Executive Officer, 2015-.

Mikhail Shapiro, Ph.D.
Professor of Chemical Engineering; Investigator, Heritage Medical Research Institute
B.S., Brown University, 2004; Ph.D., Massachusetts Institute of Technology, 2008. Visiting Associate, Caltech, 2013; Assistant Professor, 2014-18; HMRI Investigator, 2015-; Schlinger Scholar, 2017-18; Professor, 2019-.

Mohammad H Shehata
Visiting Associate in Biology and Biological Engineering
B.S., Cairo University, Egypt, 2001; Ph.D., University of Toyama, Japan, 2011. Caltech, 2016-21.

Joseph E Shepherd, Ph.D.
C. L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering
B.S., University of South Florida, 1976; Ph.D., Caltech, 1981. Associate Professor, 1993-99; Professor of Aeronautics, 1999-2005; Professor of Aeronautics and Mechanical Engineering, 2006-08; Johnson Professor, 2008-; Davis Leadership Chair, 2018-20; Dean of Graduate Studies, 2009-15; Vice President for Student Affairs, 2015-20.

Robert P (Bob) Sherman, Ph.D.
Professor of Economics and Statistics; Executive Officer of the Social Sciences
B.A., Marquette University, 1978; M.A., University of Louisville, 1985; M.Phil., Yale University, 1987; Ph.D., 1991. Assistant Professor, Caltech, 1996-99; Associate Professor, 1999-2005; Professor, 2005-; Executive Officer, 2019-.

Rishabh M Shetty
Visiting Associate in Biology and Biological Engineering

Clara Shikhelman
Lecturer in Mathematics; Postdoctoral Scholar in Mathematics
B.S., Tel Aviv University, 2010; M.S., Weizmann Institute, 2012; Ph.D., Tel Aviv University, 2019. Caltech 2020.

Shinsuke (Shin) Shimojo, Ph.D.
Gertrude Baltimore Professor of Experimental Psychology
B.A., University of Tokyo, 1978; M.A., 1980; Ph.D., Massachusetts Institute of Technology, 1985. Associate Professor, Caltech, 1997-98; Professor, 1999-2010; Baltimore Professor, 2010-.

Ofir Shoshanim
Visiting Associate in Chemistry

Matthew S (Matt) Shum, Ph.D.
J. Stanley Johnson Professor of Economics
B.A., Columbia University, 1992; Ph.D., Stanford University, 1998. Professor, Caltech, 2008-16; J. Stanley Johnson Professor, 2016-.

Athanassios G (Thanos) Siapas, Ph.D.
Professor of Computation and Neural Systems; Executive Officer for Computation and Neural Systems
B.S., Massachusetts Institute of Technology, 1990; M.S., 1992; Ph.D., 1996. Assistant Professor, Caltech, 2002-08; Bren Scholar 2003-08; Associate Professor, 2008-10; Professor, 2010-; Executive Officer, 2017-.

Constantine (Costis) Sideris
Visiting Associate in Computing and Mathematical Sciences

Daniel M Silevitch
Research Professor of Physics
B.S., Massachusetts Institute of Technology, 1996; Ph.D., John Hopkins University, 2003. Caltech, 2015-.

Linda A Silveria
Visiting Associate in Biology and Biological Engineering

Leon T Silver, Ph.D.
W. M. Keck Foundation Professor for Resource Geology, Emeritus
B.S., University of Colorado, 1945; M.S., University of New Mexico, 1948; Ph.D., Caltech, 1955. Assistant Professor of Geology, 1955-62; Associate Professor, 1962-65; Professor, 1965-83; Keck Professor, 1983-96; Keck Professor Emeritus, 1996-.
David W Simmons-Duffin, Ph.D.
Associate Professor of Theoretical Physics
A.B., Harvard University, 2006; A.M., 2006; CASM., University of Cambridge, 2007; Ph.D., Harvard University, 2012. Visiting Associate, Caltech, 2016-17; Assistant Professor, 2017-20; Associate Professor, 2020-.

Barry M Simon, Ph.D.; D.Sc.h.c.
International Business Machines Professor of Mathematics and Theoretical Physics, Emeritus

Melvin I (Mel) Simon, Ph.D.
Anne P. and Benjamin F. Biaggini Professor of Biological Sciences, Emeritus
B.S., City College of New York, 1959; Ph.D., Brandeis University, 1963. Professor, Caltech, 1982-86; Biaggini Professor, 1986-2005; Biaggini Professor Emeritus, 2005-; Chair, Division of Biology, 1995-2000.

Mark Simons, Ph.D.
John W. and Herberta M. Miles Professor of Geophysics; Jet Propulsion Laboratory Chief Scientist
B.S., University of California (Los Angeles), 1989; Ph.D., Massachusetts Institute of Technology, 1995. Assistant Professor, Caltech, 1997-2003; Associate Professor, 2003-2007; Professor, 2007-17; Miles Professor, 2017-; Jet Propulsion Laboratory Chief Scientist, 2017-.

Peter Smillie
Harry Bateman Instructor in Mathematics

Annette J Smith, Ph.D.
Professor of Literature, Emeritus
B.A., University of Paris (Sorbonne), 1947; M.A., 1950; Ph.D., 1970. Visiting Assistant Professor of French, Caltech, 1970-71; Lecturer, 1971-81; Associate Professor, 1982-85; Professor, 1985-92; Professor of Literature Emeritus, 1993-.

Suzanne Smrekar
Visiting Associate in Geophysics

Stefanie E Sobelle
Visiting Associate Professor of English

B T Soifer, Ph.D.
Harold Brown Professor of Physics, Emeritus; Director, Spitzer Science Center
B.S., Caltech, 1968; Ph.D., Cornell University, 1972. Senior Research Fellow, Caltech, 1978-81; Senior Research Associate, 1981-89; Professor, 1989-15; Harold Brown Professor, 2015-17; Harold Brown Professor, Emeritus, 2017-; Director, Space Infrared Telescope Facility (SIRTF) Science Center, 1997-2004. Director, Spitzer Science Center, 2004-; Deputy Chair, 2008-10; Acting Chair, 2010; Division Chair, 2010-14; Kresa Leadership Chair, 2014-15.

Maria Spiropulu, Ph.D.
Shang-Yi Ch’en Professor of Physics
B.Sc., Aristotle University of Thessaloniki, 1993; M.A., Harvard University, 1995; Ph.D., 2000. Associate Professor, Caltech, 2008-11; Professor, 2011-17; Ch’en Professor, 2017-.

Charles D Sprenger, Ph.D.
Professor of Economics
B.A., Stanford University, 2002; M.Sc., University College London, 2005; Ph.D., University of California, San Diego, 2011. Caltech, 2020-.

Mark Stalzer
Visiting Associate in Computing and Mathematical Sciences

Damian A Stanley
Visiting Associate in Psychology

Angelike Stathopoulos, Ph.D.
Professor of Biology
B.A., University of California, 1992; Ph.D., Stanford University, 1998.

Officers and Faculty
Assistant Professor, Caltech, 2005-11; Professor, 2011-.  

Charles (Chuck) Steidel, Ph.D.  
Lee A. DuBridge Professor of Astronomy  
A.B., Princeton University, 1984; Ph.D., Caltech, 1990. Assistant Professor, 1995-97; Associate Professor, 1997-98; Professor 1998-2004; DuBridge Professor, 2004-. Executive Officer for Astronomy, 2004-2007.  

Paul W Sternberg, Ph.D.  
Bren Professor of Biology  

David J (Dave) Stevenson, Ph.D., D.Sc.  
Marvin L. Goldberger Professor of Planetary Science  
B.S., Victoria University (New Zealand), 1971; M.S., 1972; Ph.D., Cornell University, 1976; D.Sc., Victoria University. Associate Professor, Caltech, 1980-84; Professor, 1984-95; Van Osdl Professor, 1995-2011; Goldberger Professor, 2011--. Chair, Division of Geological and Planetary Sciences, 1989-94.  

Joann M Stock, Ph.D.  
Professor of Geology and Geophysics  
B.S., Massachusetts Institute of Technology, 1981; M.S., 1981; Ph.D., 1988. Visiting Assistant Professor, Caltech, 1990; Associate Professor, 1992-98; Professor, 1998-.  

Edward M Stolper, Ph.D., D.Sc.h.c., D.Phil.h.c.  
Robert Andrews Millikan Professor of Geology  
A.B., Harvard College, 1974; M.Phil., University of Edinburgh, 1976; Ph.D., Harvard University, 1979; D.Sc.h.c., University of Bristol; University of Edinburgh; D.Phil.h.c., Hebrew University. Assistant Professor, Caltech, 1979-82; Associate Professor, 1982-83; Professor, 1983-90; Leonhard Professor, 1990-2019; Millikan Professor, 2020-. Acting Executive Officer for Geochemistry, 1989; Executive Officer, 1989-94; Chair, Division of Geological and Planetary Sciences, 1994-2004; Acting Provost, 2004; Provost, 2007-17; Larson Provostial Chair, 2013-17; Interim President, 2013-2014; Senior Advisor, 2017-19.  

Brian M Stoltz, Ph.D.  
Professor of Chemistry  

Edward C Stone, Ph.D., D.Sc.h.c.  
David Morrisroe Professor of Physics; Vice Provost for Special Projects  
S.M., University of Chicago, 1959; Ph.D., 1964; D.Sc.h.c., Harvard University; Washington University; University of Chicago; University of Southern California. Research Fellow, Caltech, 1964-66; Senior Research Fellow, 1967; Assistant Professor, 1967-71; Associate Professor, 1971-76; Professor, 1976-94; Morrisroe Professor, 1994-. Chairman, Division of Physics, Mathematics and Astronomy, 1983-88; Vice President for Astronomical Facilities, 1988-90; Vice President and Director of the Jet Propulsion Laboratory, 1991-2001; Vice Provost for Special Projects, 2004-.  

Paul B Stovall  
Lecturer in Mechanical and Civil Engineering  

Ellen G Strauss  
Senior Research Associate in Biology, Emeritus  
B.A., Swarthmore College, 1960; Ph.D., Caltech, 1966. Research Fellow, 1969-73; Senior Research Fellow, 1973-84; Senior Research Associate, 1984-2007; Senior Research Associate Emeritus, 2007-.  

James H Strauss, Ph.D.  
Ethel Wilson Bowles and Robert Bowles Professor of Biology, Emeritus  
B.S., Saint Mary’s University, 1960; Ph.D., Caltech, 1967. Assistant Professor, 1969-75; Associate Professor, 1975-83; Professor, 1983-93; Bowles Professor, 1993-2007; Bowles Professor Emeritus, 2007-. Executive Officer for Molecular and Cellular Biology, 1980-89.  

Andrew M Stuart, Ph.D.  
Bren Professor of Computing and Mathematical Sciences  
B.S., University of Bristol, 1983; Ph.D., University of Oxford, 1986. Bren Professor, Caltech, 2016-.  

Trustees, Administration, Faculty
John Styles  
*Eleanor Searle Visiting Professor of History*  
B.A., University of Cambridge, 1971;  

Tsu-Te J (Judith) Su  
*Visiting Associate in Biology and Biological Engineering*  
B.S., Massachusetts Institute of Technology, 2002, M.S., 2004, Ph.D.,  

Joanna Sulkowska  
*Visiting Associate in Chemistry*  
M.S., University of Warsaw, 2003;  

Piotr Sulkowski  
*Visiting Associate in Theoretical Physics*  
M.Sc., Warsaw University, 2002; Ph.D.,  

Anne Sullivan  
*Weisman Postdoctoral Instructor in Visual Culture*  

Mark R Swain  
*Visiting Associate in Planetary Science*  

Christopher M Swank  
*Research Assistant Professor of Physics*  
B.S., North Carolina State University Raleigh, 2005; Ph.D., North Carolina State University (Raleigh), 2012.  
Caltech 2019-22.

Noel M Swerdlow  
*Visiting Associate in History*  
Visiting Professor, 2008-09.

Reza Tadayon Nejad  
*Visiting Associate in Neuroscience*  
Ph.D., University of Calgary, 2011;  

Shervin Taghavi Larigani  
*Visiting Associate in Mechanical and Civil Engineering*  
M.S., California Institute of Technology,  

Yu-Chong Tai, Ph.D.  
*Anna L. Rosen Professor of Electrical Engineering and Medical Engineering; Andrew and Peggy Cherng Medical Engineering Leadership Chair; Executive Officer for Medical Engineering*  
B.S., National Taiwan University, 1981;  
M.S., University of California, 1986;  
Ph.D., 1989. Assistant Professor of Electrical Engineering, Caltech, 1989-95; Associate Professor, 1995-2000;  
Professor, 2000-05; Professor of Electrical Engineering and Mechanical Engineering, 2005-13; Rosen Professor, 2013-;  
Cherng Medical Engineering Leadership Chair, 2017-;  
Executive Officer for Electrical Engineering, 2005-2008;  
Executive Officer for Medical Engineering, 2013-.

Michael K Takase  
*Lecturer in Chemistry*  
B.S., University of Hawaii (Manoa), 2004; Ph.D., University of California (Irvine), 2009. Caltech, 2013; 2014;  

Omer Tamuz, Ph.D.  
*Professor of Economics and Mathematics*  
B.Sc., Tel Aviv University, 2006; M.Sc.,  
Weizmann Institute of Science, 2010;  
Ph.D., 2013. Assistant Professor,  
Caltech, 2015-19; Professor, 2019-.

Feifei Tan  
*Visiting Associate in Medical Engineering*  

Armand R Tanguay  
*Visiting Associate in Biology and Biological Engineering*  
B.S., Caltech, 1971; M.S., Yale University, 1972; M.Phil., 1975; Ph.D., 1977. Associate Professor, University of Southern California, 1983-. Visiting Associate, Caltech, 1984; 1999-2003;  
2017-21.

Robert D Tanner  
*Visiting Associate in Chemical Engineering*  
B.S., University of Michigan, 1962;  

Hugh P Taylor, Ph.D.  
*Robert P. Sharp Professor of Geology, Emeritus*  
B.S., Caltech, 1954; A.M., Harvard University, 1955; Ph.D., Caltech, 1959. Assistant Professor, 1959-61;
Research Fellow, 1961; Assistant Professor, 1962-64; Associate Professor, 1964-69; Professor, 1969-81; Sharp Professor, 1981-2002; Sharp Professor Emeritus, 2002-. Executive Officer for Geology, 1987-94.

Joao Teixeira  
Visiting Associate in Environmental Science and Engineering  

Saul A Teukolsky, Ph.D.  
Robinson Professor of Theoretical Astrophysics  
B.Sc., University of the Witwatersrand, 1970; Ph.D., California Institute of Technology, 1973. Visiting Associate, Caltech, 2015-16; Robinson Professor, 2017-.

Andrea Thabet Waldman  
Lecturer in American History  

Andrew F Thompson, Ph.D.  
Professor of Environmental Science and Engineering; Divisional Academic Officer for Geological and Planetary Sciences  
B.S., Dartmouth College, 2000; C.A.S., University of Cambridge, 2001, M.Phil., 2002; Ph.D., Scripps Institute of Oceanography, 2006. Assistant Professor, Caltech, 2011-17; Professor, 2017--; Academic Officer, 2019--.

Matthew W Thomson, Ph.D.  
Assistant Professor of Computational Biology; Investigator, Heritage Medical Research Institute  
B.A., Harvard University, 2001; Ph.D., 2011. Visiting Associate, Caltech, 2016; Assistant Professor, 2017--; HMRI Investigator, 2018--.

Kip S Thorne, Ph.D  
Nobel Laureate, D.Sc.h.c., D.h.c., L.H.D.h.c.  
Richard P. Feynman Professor of Theoretical Physics, Emeritus  
B.S., Caltech, 1962; Ph.D., Princeton University, 1965; D.Sc.h.c., Illinois College; Utah State University; University of Chicago; D.h.c., Moscow University; University of Glasgow; L.H.D.h.c., The Claremont Graduate University. Research Fellow in Physics, Caltech, 1966-67; Associate Professor of Theoretical Physics, 1967-70; Professor, 1970-91; William R. Kenan Professor, 1981-91; Feynman Professor, 1991-2009; Feynman Professor Emeritus, 2009-.

David A Tirrell, Ph.D., D.h.c  
Provost; Ross McCollum-William H. Corcoran Professor of Chemistry and Chemical Engineering; Carl and Shirley Larson Provostial Chair  
B.S., Massachusetts Institute of Technology, 1974; M.S., University of Massachusetts, 1976; Ph.D., 1978; D.h.c., Eindhoven Technical University. McCollum-Corcoran Professor and Professor, Caltech, 1998--. Chair, Division of Chemistry and Chemical Engineering, 1999-2009; Director, Beckman Institute, 2011-17, Provost, 2017--; Larson Provostial Chair, 2017--.

Francois Tissot, Ph.D.  
Assistant Professor of Geochemistry  
Diplôme d'Ingénieur, École National Supérieure de Géologie, 2009; M.Sc., Lulea University of Technology, 2009; Ph.D., University of Chicago, 2015. Visiting Associate, Caltech, 2017-18; Assistant Professor, 2018--.

Ritsuko H (Hirai-Toner) Toner  
Lecturer in Japanese  
B.A., Kyoto University of Foreign Studies (Japan), 1974; M.A., University of Southern California, 1979; Ph.D., 1987. Caltech, 1992--.

Geoffrey C Toon  
Visiting Associate in Planetary Science  

Sandra Troian, Ph.D.  
Professor of Applied Physics, Aeronautics, and Mechanical Engineering  
B.A., Harvard University, 1980; M.S., Cornell University, 1984; Ph.D., 1987. Moore Distinguished Scholar, Caltech, 2004-05; Professor, 2006--.

Joel A Tropp, Ph.D.  
Steele Family Professor of Applied and Computational Mathematics  
B.A., B.S., University of Texas (Austin), 1999; M.S., 2001; Ph.D., 2004. Assistant Professor, Caltech, 2007-12; Professor, 2012-17; Steele Family Professor, 2017--.

Victor C Tsai  
Visiting Associate in Geophysics  
B.S., California Institute of Technology, 2004; A.M., Harvard University, 2006; Ph.D., 2009. Assistant Professor,
Doris Y Tsao, Ph.D.
Professor of Biology; T&C Chen Center for Systems Neuroscience Leadership Chair; Investigator, Howard Hughes Medical Institute; Director, T&C Chen Center for Systems Neuroscience
B.S., Caltech, 1996; Ph.D., Harvard University, 2002. Assistant Professor, Caltech, 2008-2014; Professor, 2014-; T&C Chen Center for Systems Neuroscience Leadership Chair, 2017--; HHMI Investigator, 2015--; Director, 2017--.

Kohji Tsumura
Visiting Associate in Physics
B.S., Tohoku University, 2005; M.S., University of Tokyo, 2007; Ph.D., University of Tokyo, 2010. Caltech, 2018-21.

Anita Tusche
Visiting Associate in Neuroeconomics

Carol C (Chace) Tydell
Lecturer in Biology

Mykhaylo (Misha) Tyomkyn
Lecturer in Mathematics

Christopher M (Chris) Umans, Ph.D
Professor of Computer Science; EAS Division Deputy Chair
B.A., Williams College, 1996; Ph.D., University of California, Berkeley, 2000. Assistant Professor, Caltech, 2002-08; Associate Professor, 2008-10; Professor, 2010--; EAS Division Deputy Chair, 2018-.

Kerry J Vahala, Ph.D.
Ted and Ginger Jenkins Professor of Information Science and Technology and Applied Physics; Executive Officer for Applied Physics and Materials Science
B.S., Caltech, 1980; M.S., 1981; Ph.D., 1985. Research Fellow in Applied Physics, 1985; Associate Professor, 1986-90; Associate Professor, 1990-96; Professor, 1996-2002; Jenkins Professor, 2002--; Executive Officer, 2013-.

Palghat P Vaidyanathan
Kiyo and Eiko Tomiyasu Professor of Electrical Engineering
B.Sc., University of Calcutta, 1974; B.Tech., 1977; M.Tech., 1979; Ph.D., University of California (Santa Barbara), 1982. Assistant Professor, Caltech, 1983-88; Associate Professor, 1988-93; Professor, 1993-2018; Tomiyasu Professor, 2018--; Executive Officer for Electrical Engineering, 2002-05.

Joan S Valentine
Visiting Associate in Geobiology

Michele Vallisneri
Visiting Associate in Theoretical Astrophysics

John P Van Deusen
Lecturer in Mechanical and Civil Engineering

David A Van Valen, Ph.D.
Assistant Professor of Biology and Biological Engineering
B.S., Massachusetts Institute of Technology, 2003; Ph.D., Caltech, 2011; M.D., University of California Los Angeles, 2013; Visiting Associate, Caltech, 2017-18; Research Assistant Professor, 2018; Assistant Professor, 2018-.

Michael C Vanier
Teaching Professor of Computing and Mathematical Sciences
B.S., McGill University, 1986; M.S., California Institute of Technology, 1993; Ph.D., 2001. Lecturer in Computing and Mathematical Sciences, 2004-2020; Teaching Professor of Computing and Mathematical Sciences, 2020-.

Alexander J Varshavsky, Ph.D.
Thomas Hunt Morgan Professor of Biology
B.S., Moscow State University, 1970; Ph.D., Institute of Molecular Biology,
1973. Smits Professor, Caltech, 1992-17; Morgan Professor, 2017-.

Tarciso A Velho
Visiting Associate in Biology and Biological Engineering

Benjamin T Vest
Visiting Associate in Applied Physics and Materials Science

Michael A (Mike) Vicic
Lecturer in Chemistry

Thomas G Vidick, Ph.D.
Professor of Computing and Mathematical Sciences
B.S., Ecole Normale Superieure, Paris, 2007; M.S., 2007; Ph.D., University of California, Berkeley, 2011. Assistant Professor, Caltech, 2014-17; Associate Professor, 2017-18; Professor, 2018-.

Fulvia Villani
Visiting Associate in Chemical Engineering

Scott C Virgil
Lecturer in Chemistry

Petr Vogel
Senior Research Associate in Physics, Emeritus

Rochus E (Robbie) Vogt, Ph.D.
R. Stanton Avery Distinguished Service Professor and Professor of Physics, Emeritus
S.M., University of Chicago, 1957; Ph.D., 1961. Assistant Professor, Caltech, 1962-65; Associate Professor, 1965-70; Professor, 1970-82; R. Stanton Avery Distinguished Service Professor, 1982-2002; R. Stanton Avery Distinguished Service Professor Emeritus, 2002-. Chief Scientist, Jet Propulsion Laboratory, 1977-78; Chairman, Division of Physics, Mathematics and Astronomy, 1978-83; Acting Director, Owens Valley Radio Observatory, 1980-81; Vice President and Provost, 1983-87; Director, Laser Interferometer Gravitational-wave Observatory Project, 1987-94.

Lilien N Voong
Lecturer in Engineering

Peter W Voorhees
Visiting Associate in Applied Physics and Materials Science

Rebecca M Voorhees, Ph.D.
Assistant Professor of Biology and Biological Engineering; Investigator, Heritage Medical Research Institute
B.S., Yale University, 2007; M.Sc., 2007; Ph.D., MRC Laboratory of Molecular Biology, 2011. Visiting Associate, Caltech, 2016-17; Assistant Professor, 2017--; HMRI Investigator, 2017-.

Daniel A Wagenaar
Research Professor of Biology and Biological Engineering
M.Sc., University of Amsterdam, 1997; M.S., King’s College - London, 1998; Ph.D., Caltech, 2006; 2016--.

David B Wales, Ph.D.
Professor of Mathematics, Emeritus
B.S., University of British Columbia, 1961; M.A., 1962; Ph.D., Harvard University, 1967. Bateman Research Fellow, Caltech, 1967-68; Assistant Professor, 1968-71; Associate Professor, 1971-77; Professor, 1977-2008; Professor Emeritus, 2008-. Associate Dean of Students, 1976-80; Dean of Students, 1980-84; Executive Officer for Mathematics, 1985-91; Master of Student Houses, 1991-97.

Duane E Waliser
Visiting Associate in Planetary Science
Kaihang Wang, Ph.D.
Assistant Professor of Biology and Biological Engineering
B.S., University College, London, 2004; Ph.D., University of Cambridge, 2008. Visiting Associate, Caltech, 2017-18; Assistant Professor, 2018-.

Lihong Wang, Ph.D.
Bren Professor of Medical Engineering and Electrical Engineering
B.S., Huazhong University of Science and Technology, 1984; M.S., 1987; Ph.D., Rice University, 1992. Visiting Associate, Caltech, 2016; Bren Professor, 2017-.

Lu Wang, Ph.D.
Professor of Mathematics
B.S., Peking University, 2006; Ph.D., Massachusetts Institute of Technology, 2011. Caltech, 2019-.

Xiangyun Wang
Lecturer in Chinese

Zhen-Gang Wang, Ph.D.
Dick and Barbara Dickinson Professor of Chemical Engineering; Executive Officer for Chemical Engineering
B.Sc., Beijing University, 1982; Ph.D., University of Chicago, 1987. Assistant Professor, Caltech, 1991-97; Associate Professor, 1997-2002; Professor, 2002-15; Hanson Professor, 2015-17; Dickinson Professor, 2017-; Executive Officer, 2019-.

Michael S Waterman
Visiting Associate in Biology and Biological Engineering

Michael M Watkins, Ph.D.
Vice President and Director of the Jet Propulsion Laboratory; Professor of Aerospace and Geophysics
B.S., University of Texas, Austin, 1983; M.S., 1985; Ph.D., 1989. Professor, Caltech, 2016-; Vice President and Director, 2016-.

Jennifer (Jenn) Weaver
Lecturer in Engineering

Lu Wei, Ph.D.
Assistant Professor of Chemistry
B.S., Nanjing University, 2010; Ph.D., Colombia University, 2015. Visiting Associate, Caltech, 2017-18; Assistant Professor, 2018-.

Sander Weinreb
Visiting Associate in Astronomy

Alan J Weinstein, Ph.D.
Professor of Physics, Executive Officer for Physics
A.B., Harvard University, 1978; Ph.D., 1983. Assistant Professor, Caltech, 1988-95; Associate Professor, 1995-99; Professor, 2000-; Executive Officer, 2020-.

Cindy A Weinstein, Ph.D.
Eli and Edythe Broad Professor of English; Vice Provost; Chief Diversity Officer
B.A., Brandeis University, 1982; Ph.D., University of California, 1989. Assistant Professor of Literature, Caltech, 1989-95; Associate Professor, 1995-2004; Associate Professor of English, 2004-05; Professor, 2005-16; Broad Professor, 2016-; Executive Officer, 2008-14; Vice Provost, 2014-18; 2019-; Chief Diversity Officer, 2015-18, 2019-.

Daniel P (Dan) Weitekamp, Ph.D.
Professor of Chemical Physics
B.A., Harvard College, 1974; Ph.D., University of California, 1982. Assistant Professor of Chemistry, Caltech, 1985-91; Associate Professor of Chemical Physics, 1991-2006; Professor, 2006-.

Paul O Wennberg, Ph.D.
R. Stanton Avery Professor of Atmospheric Chemistry and Environmental Science and Engineering; Executive Officer for Environmental Science and Engineering; Director, Ronald and Maxine Linde Center for Global Environmental Science

Michael W Werner
Visiting Associate in Astrophysics
Brian P Wernicke, Ph.D.
Chandler Family Professor of Geology
B.S., University of Southern California, 1978; Ph.D., Massachusetts Institute of Technology, 1982. Visiting Professor, Caltech, 1990; Professor of Geology, 1992–2001; Chandler Professor, 2001–.

Nicolas Wey-Gomez, Ph.D.
Professor of History
B.A., Brandeis University, 1986; M.A., Johns Hopkins University, 1987; M.A., 1991; PhD, 1996. Associate Professor, Caltech, 2010; Professor, 2010–.

Ward Whaling, Ph.D.
Professor of Physics, Emeritus
B.S., Rice University, 1944; M.A., 1947; Ph.D., 1949. Research Fellow, Caltech, 1949–52; Assistant Professor, 1952–58; Associate Professor, 1958–62; Professor, 1962–93; Professor Emeritus, 1993–.

Kara Whatley
University Librarian

Mark E Wiedenbeck
Visiting Associate in Physics

Rainer Wieler
Visiting Associate in Geochemistry

Adam C Wiernick, Ph.D.
Professor of Computing and Mathematical Sciences
B.S., Carnegie Mellon University, 2001; M.S., 2004; Ph.D., 2007. Assistant Professor, Caltech, 2007–12; Professor, 2012–; Executive Officer, 2015–; Associate Director, 2015–16; Director, 2016–.

Danielle L Wiggins, Ph.D.
Assistant Professor of History
B.A., Yale University, 2012; Ph.D., Emory University, 2018. Caltech, 2019–.

John C Williams
Visiting Associate in Chemistry

Kenneth (Ken) Williford
Visiting Associate in Geobiology

Nathan M Wilson
Lecturer in Engineering

Richard M Wilson, Ph.D.
Professor of Mathematics, Emeritus
B.S., Indiana University, 1966; M.S., Ohio State University, 1968; Ph.D., 1969. Sherman Fairchild Distinguished Scholar, Caltech, 1976; Professor, 1980–2014; Professor Emeritus, 2014–.

Gregoire S Winckelmans
Clark B. Millikan Visiting Professor of Aerospace

Erik Winfree, Ph.D.
Professor of Computer Science, Computation and Neural Systems, and Bioengineering
B.S., University of Chicago, 1991; Ph.D., Caltech, 1998. Assistant Professor, 1999–2006; Associate Professor of Computer Science and Computation and Neural Systems, 2006–07; Associate Professor, 2007–10; Professor, 2010–.

Kenneth J Winston
Lecturer in Economics

Mark B Wise, Ph.D.
John A. McCone Professor of High Energy Physics
B.Sc., University of Toronto, 1976; M.Sc., 1977; Ph.D., Stanford University, 1980. Assistant Professor of Theoretical Physics, Caltech, 1982–84; Associate Professor, 1984–85; Professor, 1985–92; McCone Professor, 1992–.

Barbara J Wold, Ph.D.
Bren Professor of Molecular Biology; Allen V.C. Davis and Lenabelle Davis Leadership Chair, Richard N. Merkin Institute for Translational Research; Director, Richard N. Merkin Institute for Translational Research
B.S., Arizona State University (Tempe),
Historical Sketch

1973; Ph.D., Caltech, 1978. Research Fellow, 1978; Assistant Professor, 1981-88; Associate Professor, 1988-96; Professor, 1996-2002; Bren Professor, 2003--; Davis Leadership Chair, 2019--; Director, 2001-11, 2019-.

Juliann K (Juli) Wolfgram
Lecturer in Art History

James F Woodward, Ph.D.
J. O. and Juliette Koepfli Professor of the Humanities, Emeritus

Pin Chieh Wu
Visiting Associate in Applied Physics and Materials Science

Theodore Y Wu, Ph.D.
Professor of Engineering Science, Emeritus
B.Sc., Chiao-Tung University (China), 1946; M.S., Iowa State University, 1948; Ph.D., Caltech, 1952. Research Fellow in Hydrodynamics, 1952-55; Assistant Professor of Applied Mechanics, 1955-57; Associate Professor, 1957-61; Professor, 1961-66; Professor of Engineering Science, 1966-96; Professor Emeritus, 1996-.

Wei-Li Wu
Visiting Associate in Biology and Biological Engineering

Xianqian Wu
Visiting Associate in Chemistry

Peter J Wyllie, Ph.D., D.Sc.h.c.
Professor of Geology, Emeritus
B.Sc. (Geology), 1952; B.Sc. (Geology), 1955; Ph.D., 1958; D.Sc.h.c., Saint Andrews University. Professor, Caltech, 1983-99; Professor Emeritus, 1999-. Chairman, Division of Geological and Planetary Sciences, 1983-87; Divisional Academic Officer, 1994-99.

Yufei Xi
Visiting Associate in Geophysics

Si Xie
Research Assistant Professor of Physics

Yi Xin, Ph.D.
Assistant Professor of Economics
B.A., B.S., Peking University, 2012; M.A., Johns Hopkins University, 2016; Ph.D., 2018; Caltech, 2018-.

Daxin Xu
Harry Bateman Instructor Mathematics

Wei Yan
Visiting Associate in Applied Physics and Materials Science

Changhuei Yang, Ph.D.
Thomas G. Myers Professor of Electrical Engineering, Bioengineering, and Medical Engineering
B.S. (Electrical Engineering); B.S. (Physics), Massachusetts Institute of Technology, 1997; M.S.(Engineering), 1997; B.S. (Mathematics), 2002; Ph.D., 2001. Assistant Professor of Electrical Engineering, Caltech, 2003-04; Assistant Professor of Electrical Engineering and Bioengineering, 2004-09; Associate Professor, 2009-10; Professor, 2010-16; Myers Professor, 2016-.

Lei Yang
Visiting Associate in Medical Engineering

Amnon Yariv, Ph.D.
Martin and Eileen Summerfield Professor of Applied Physics and Electrical Engineering
B.S., University of California, Berkeley,
1954; M.S., 1956; Ph.D., 1958. Associate Professor, Caltech, 1964-66; Professor, 1966-74; Professor of Electrical Engineering and Applied Physics, 1974-79; Myers Professor, 1979-96; Summerfield Professor, 1996-.

Nai-Chang Yeh, Ph.D.
Professor of Physics
B.S., National Taiwan University, 1983; Ph.D., Massachusetts Institute of Technology, 1988. Assistant Professor, Caltech, 1989-95; Associate Professor, 1995-97; Professor, 1997-; Fletcher Jones Foundation Co-Director, Kavli Nanoscience Institute, 2013-19.

Lifeng Yin
Visiting Associate in Environmental Science and Engineering

Zhifu Yin
Visiting Associate in Medical Engineering

Shaocai Yu
Visiting Associate in Chemical Engineering

Zhixiang Yu
Visiting Associate in Chemistry
B.S., Wuhan University, 1991; M.S., Peking University, 1997; Ph.D., Hong Kong University of Science and Technology, 2001. Caltech, 2019.

Yisong Yue, Ph.D.
Professor of Computing and Mathematical Sciences
B.S., University of Illinois, 2005; Ph.D., Cornell University, 2010. Assistant Professor, Caltech, 2014-20; Professor, 2020-.

Mary A Yui
Research Professor of Biology and Biological Engineering
B.A., University of California (Santa Barbara), 1977; M.S., Oregon State University, 1982; Ph.D., University of Florida, 1995. Senior Research Fellow, 2005-09; Lecturer, Caltech, 2005; 2020; Research Professor, 2009-

Yuk L Yung, Ph.D.
Professor of Planetary Science; Jet Propulsion Laboratory Senior Research Scientist
B.S., University of California, 1969; Ph.D., Harvard University, 1974. Visiting Associate, Caltech, 1976; Assistant Professor, 1977-82; Associate Professor, 1982-86; Professor, 1986-2011, 2017-; Smits Family Professor, 2012-16; Jet Propulsion Laboratory Research Scientist, 2014-15; Jet Propulsion Laboratory Senior Research Scientist, 2015-.

Howard Zebker
Visiting Associate in Geophysics

Magdalena Zernicka-Goetz, Ph.D.
Bren Professor of Biology and Biological Engineering
M.Sc., University of Warsaw, 1988; Ph.D, 1993; Visiting Associate, Caltech, 2018-19; Bren Professor, 2019-.

Zhongwen Zhan, Ph.D.
Assistant Professor of Geophysics
B.S., University of Science and Technology of China, 2006; M.S., 2008; Ph.D., California Institute of Technology, 2013. Caltech, 2015-.

Ying Zhang
Visiting Associate in Biology and Biological Engineering

Yurong Zhou
Visiting Associate in Medical Engineering

Xinwen Zhu, Ph.D.
Professor of Mathematics
A.B., Peking University, 2004; Ph.D., University of California, Berkeley, 2009. Associate Professor, Caltech, 2014-16; Professor, 2016-.

Kai G Zinn, Ph.D.
Howard and Gwen Laurie Smits Professor of Biology
B.A., University of California (San Diego), 1977; Ph.D., Harvard University, 1983. Assistant Professor, Caltech, 1989-95; Associate Professor, 1995-1999. Professor, 1999-2017; Smits Professor, 2017-.
Jonas Zmuidzinas, Ph.D.
**Merle Kingsley Professor of Physics; Director, Caltech Optical Observatories**
B.S., Caltech, 1981; Ph.D., University of California, 1987. Assistant Professor, Caltech, 1989-95; Associate Professor, 1995-2000; Professor 2000-10; Kingsley Professor, 2010-; Jet Propulsion Laboratory Senior Research Scientist, 2005-11; Jet Propulsion Laboratory Chief Technologist, 2011-16; Director, Micro-Devices Laboratory, Jet Propulsion Laboratory, 2007-11; Director, 2018-.

Konstantin M Zuev
**Teaching Assistant Professor of Computing and Mathematical Sciences**
B.S., Lomonosov Moscow State University, Russia, 2003; M.S., 2008; Ph.D., Hong Kong University of Science and Technology, 2009. Visiting Associate in Computing and Mathematical Sciences, 2011-13; Lecturer in Computing and Mathematical Sciences, 2015-20; Teaching Assistant Professor of Computing and Mathematical Sciences, 2020-.

Kathryn M Zurek, Ph.D.
**Professor of Theoretical Physics**
B.S., Bethel University, 2001; Ph.D., University of Washington, 2006; Professor, Caltech, 2019-.
INDEX

A
abroad studies, 12, 183–189, 215–216
absences, emergency contact
notification policy, 39
academic advisement, 191–192
academic calendar, 4–5, 322–323
academic partnerships, 12
academic records. See also grades and grading
access to, 35–38
transcripts, 34–36, 38
veterans, 34–35
academic requirements. See scholastic requirements
Academics and Research Committee (ARC), 14
acceptance procedure, 176
accessibility and accommodation, ADA compliance, 55–57
accreditation, 40
activities centers
Hametman Center, 17, 24
Student Activities Center, 18
ADA (Americans with Disabilities Act) compliance, 55–57
Add Day, 30, 31, 191, 196
adding courses, policies for, 191
administrative officers, 713–715
admissions
as freshman, 175–178
graduate program, 319–320, 334–335, 336
transfer students, 179–182
Advanced Placement (AP) programs, 177–178
advisors and advising
academic advisement, 191–192
career development services, 26–28
faculty-student relations, 18
freshman advisors, 18
graduate and professional school advising, 27
graduate program, 328, 338, 339
information and data sciences
double majors, 300
mental health counselors. See counseling services
option advisors, 19
pre-health careers advising, 27
aeronautics. See also aerospace
aerospace areas of research, 123
graduate program, 353–358
aerospace, 121–125
areas of research, 121–124
courses, 448–456
facilities, 121, 124–125
graduate option, 353–358
laboratories, 121, 124–125
undergraduate minor, 238
affirmative consent, 78–79
Air Force Reserve Officer Training Corps (AFROTC), 190
alcohol abuse policies, 102–107
Alles Laboratory for Molecular Biology, 134
allowance of credit, scholastic requirements, 200–201
alumni, employment experiences, 28
Alumni Association (CAA), 28
Alumni House, 28
Americans with Disabilities Act (ADA) compliance, 55–57
Annenberg Center for Information Science and Technology, 158
anonymous reporting, sex- and gender-based misconduct, 71
anthropology courses, 456–457
apartment buildings, graduate students, 343
appeal, sex- and gender-based misconduct complaints, 101–102
application fee, 201
application for admission, 175, 181
fee, 201
graduate programs, 319–320
undergraduate, 175
application for financial aid, 207
applied and computational mathematics, 125–126
courses, 457–464
double majors, 239
graduate program, 358–361
undergraduate option, 238–241
applied mechanics, 127
courses, 464–466
graduate program, 361–365
laboratories, 127
applied physics, 127–128
courses, 466–472
graduate program, 365–369
undergraduate option, 241–243
applied sciences, undergraduate options, 279–281
ARC (Academics and Research Committee), 14
Archives and Special Collections, 15
art history courses, 702–705
arts. See also performing and visual arts
courses, 664–666, 667–670, 702–705
rehearsal facilities, 17
assault. See also violence and violence prevention
sexual assault definitions, 81–82
assistantships, graduate, 344–345
Associated Students of California Institute of Technology, Inc. (ASCIT), 20, 41
associations. See student activities
astronomy. See observatories and observational facilities
astrophysics, 128–130. See also
observatories and observational facilities
areas of research, 128–129
courses, 472–479
graduate program, 369–373
library, 15
undergraduate option, 243–247
Atacama Large Millimeter/submm Array (ALMA), 130
Athletics, Physical Education & Recreation (APER) department, 19. See also physical education attendance, refunds and repayments, 202–203
auditing courses, 30
Avery House, 16, 178
B Bachelor's degree. See also undergraduate program candidacy, scholastic requirements, 199
Bechtel Residence, 16–17, 178
Beckman Institute, 13, 134, 138
Beckman Laboratory of Chemical Synthesis, 137
biochemistry and molecular biophysics, 131
areas of research, 131
courses, 479–480
graduate programs, 373–375
bioengineering, 132–133
courses, 481–486
graduate program, 375–377
Rosen Bioengineering Center, 13
undergraduate option, 247–250
biology, 133–134. See also bioengineering AP/IB credit, 177
areas of research, 133–134
Broad Center for the Biological Sciences, 134
classroom buildings, 134
courses, 479–480, 481–501
facilities, 134
graduate programs, 377–383, 431–433
laboratories, 134
microbiology, 163
neurobiology, 163–164
premedical program, 251
systems biology, 172
undergraduate option, 250–255
biophysics
areas of research, 131
graduate programs, 373–375
Blacker House, 16, 178
Board of Control, 20–21
board of trustees, 709–713
bonding leaves of absence, 194, 326
Braun House, 17, 178
Braun Laboratories, 134, 137
Bridge Laboratory of Physics, 166
Broad Center for the Biological Sciences, 134, 137
building directory, 7
buildings and facilities. See also classroom buildings; housing; laboratories; libraries; observatories and observational facilities; specific buildings by name athletic facilities, 19
athletics and athletic facilities, 19
Beckman Institute, 134
Center for Teaching, Learning, & Outreach, 13–14
directory, 7
Hixon Writing Center, 14
map of campus, 6
on-campus buildings, 6–7
business, economics, and management (BEM) courses, 501–504
undergraduate option, 255–257
C cafeterias. See dining services
Cahill Center for Astronomy and Astrophysics, 166
Cahill Library for Astrophysics, 15
Cal Grants A and B, 209
Caltech Alumni Association (CAA), 28
Caltech Archives and Special Collections, 15
Caltech Brain Imaging Center, 168
Caltech Center for Diversity (CCD), 23, 112
Caltech Community's Statement on Ethical Conduct, 43–45
Caltech ID card charges, 206, 342
Caltech-Kaiser Permanente School of Medicine MD/PhD Program, 382
Caltech Micromachining Laboratory, 147
Caltech Project for Effective Teaching (CPET), 14
Caltech Store, 17, 24
Caltech Submillimeter Observatory (CSO), 130, 166, 167
CaltechTHESIS, 15
Caltech-UCLA Medical Scientist Training Program (MSTP), 382
Caltech-USC MD/PhD Program, 383
Caltech Work-Study program, 215
The Caltech Y, 23, 222, 226, 227, 230
Cambridge Examinations, 320
Cambridge Scholars Program, 183–184
campus. See also buildings and facilities building directory, 7
map, 6
Cann Laboratory, 124
Career Development Center (CDC), 26–28
career development services, 26–28
career fairs, 27
career library, 27

Index
CARE Team, 25–26
CARMA (Combined Array for Research in Millimeter-wave Astronomy), 130
Catalina Graduate Apartment Complex, 343
CCD (Caltech Center for Diversity), 23, 112
Center for Autonomous Systems and Technologies (CAST), 121, 125
Center for Biological Circuit Design, 158
Center for Teaching, Learning, & Outreach (CTLO), 13–14
Center for the Mathematics of Information, 158
Center for the Physics of Information, 158
Charyk Laboratory of Bioinspired Design and Biopropulsion, 121
Chicago University Study Away Program, 183
child abuse, 72, 114–116 Church Laboratory for Chemical Biology, 134, 138
civil engineering, 138 areas of research, 138 courses, 521–524 graduate program, 393–396 laboratories, 138 classes. See courses classroom buildings. See also laboratories; specific areas of study and research
Annenberg Center for Information Science, 158 biology, 134 Broad Center for the Biological Sciences, 134 Cahill Center for Astronomy and Astrophysics, 166 Linde Hall of Mathematics and Physics, 160
Millikan Memorial Building, 15 Clery reporting, sex- and gender-based misconduct, 74 clubs and associations. See student activities Code of Conduct, 18, 43–45 coffee shop, 24 college entrance examinations, 175–176, 180, 320 Combined Array for Research in Millimeter-wave Astronomy (CARMA), 130 communications. See also emergency notifications courses, 694–697 electronic information resources policy, 45–48 science and engineering communication (program of study), 167 complaints, Problem-Resolution Process, 41 computational science and engineering graduate program, 399 computation and neural systems (CNS), 139 courses, 524–528 graduate program, 396–398 undergraduate option, 265–268 computer and computational science aerospace areas of research, 123 courses, 524–544 graduate programs, 396–403 computer science (CS), 140–143. See also computation and neural systems; computing and mathematical sciences areas of research, 140–142 computational science and engineering graduate program, 399 courses, 528–542 double majors, 268–269 graduate programs, 399–401 laboratories, 142 undergraduate minor, 271 undergraduate option, 268–271 computing and mathematical sciences, 125–126, 142–143. See also control and dynamical systems courses, 542–544 graduate program, 401–403 conditional grade (E grade), 30–31 Conduct Review Committee, 21 confidential resources, 111–112. See also privacy conflicts of interest, 50–55, 330–332 consent, sexual misconduct policies, 76–80 consulting, conflicts of interest, 332 control and dynamical systems (CDS), 143 courses, 544–546

Trustees, Administration, Faculty
graduate program, 403–405
undergraduate minor, 271–272
Copenhagen Scholars Program, 184–185
core curriculum requirements, 232–237
counseling services. See also advisors
and advising
crisis services, 16, 25–26
mental health, 16, 25–26, 112
sexual misconduct, 112
courses, 446–707. See also specific program
core curriculum requirements, 232–237
first-year courses, 236–238
humanities and social sciences requirements, 234–235
introductory laboratory requirement, 233–234
menu classes, 233
physical education requirement, 235
scientific writing requirement, 236
Covid-19 pandemic
college entrance examinations and, 176
information on, 1
CPET (Caltech Project for Effective Teaching), 14
credits. See also registration
allowance and transfer of credit, 200–201
AP/IB course credits, 177–178
financial aid class level, 220
transfer admissions, 180
Crellin Laboratory, 137
criminal activity. See also violence and violence prevention
dating, relationship, or domestic violence, 80, 82
emergency contact notification policy, 39
sex- and gender-based misconduct, evidence preservation, 68
stalking, 80–81, 82
Title IX, prohibited conduct under, 81–83
crisis services, 16, 25–26
cross-registration with other schools, 12
CTLO (Center for Teaching, Learning, & Outreach), 13–14
curriculum. See courses

D
Dabney House, 15, 16, 178
Dabney Library for Humanities and Social Sciences, 15
Danish Technical University, Copenhagen Scholars Program, 184–185
dating violence, 80, 82
death, emergency contact notification policy, 40
Defense Department, US, 12
deferral of entrance to undergraduate program, 177
degrees offered, 11–12. See also specific program
deposits, 201, 205
detached duty, 331–332
dietary restrictions, 24
dining services, 24, 201–202, 343
direct loans, 209–214
disability and reasonable accommodation policy, 55–57
Discobolus Trophy, 19
discrimination. See also nondiscrimination and equal opportunity policies
definitions, 75, 81
sexual or gender-based misconduct policies, 65–102
dispute resolution
Federal Student Aid Ombudsman, 214
grades and grading, 21, 33–34
student problem resolution process, 41
disruption of campus, emergency contact notification policy, 39
diversity services
Caltech Center for Diversity, 23, 112
CARE Team, 25–26
Doctor of Philosophy degrees, 319, 336–340. See also specific program
DocuServe, 15
domestic violence, 80
dormitories. See housing
double majors
applied and computational mathematics, 239
chemistry, 262
computer science, 268–269
electrical engineering, 275
geological and planetary sciences, 284
Downs Laboratory of Physics, 166
Drop Day, 31, 33
drop policies, 191, 204
drug abuse policies, 102–107
dual degree programs
Caltech-Kaiser Permanente School of Medicine MD/PhD Program, 382
3/2 Dual Degree Plan, 181–182

E
E (conditional grade), 30–31
eyear action application process, 175
École Polytechnique
graduate exchange program, 358
Scholars Program, 185–186
economics
courses, 501–504, 547–550
undergraduate option, 272–274
eDevice lending program, SFL, 15
Edinburgh Scholars Program, 186–187
education services
Center for Teaching, Learning, & Outreach, 13–14
Hixon Writing Center, 14
electrical engineering, 143–150
areas of research, 144–150
courses, 550–563
double majors, 275
graduate program, 405–408
laboratories, 144–150
undergraduate option, 274–279
electronic information resources policy, 45–48
emergency leaves of absence, 195, 327
emergency notifications
contact notification policy, 38–40
dangerous situations, 68
emergency student loans, 214
employment
career development services, 26–28
conflicts of interest, 330–332
financial aid, 215
listings, 28
nondiscrimination and equal opportunity policies, 62–65
recent graduates, employment experience of, 28
special laboratory employment, 333
whistleblower policy, 117–118
work study programs, 215
Energy Department, US, 12
energy science and technology (EST), 150
courses, 564
engineering. See also specific fields of study and research
aerospace areas of research, 123
areas of research, 132–133
communication, science and engineering (program of study), 167
graduate programs, 383–388, 393–396, 405–409, 425–431
laboratories, 136, 138, 144–150
engineering and applied science (EAS) option, 279–281
Engineer’s Degree, 319
requirements, 335–336
English as a Second Language (ESL), 180, 320
courses, 579–580
English (course of study), 156, 177
courses, 566–580
undergraduate minor, 283
undergraduate option, 281–283
English language proficiency, 180, 320
Environment, Health, and Safety Office (EHS), 58
environment, health, and safety policies, 57–61
Environment, Health and Safety Committee (EHSC), 58
environmental science and engineering (ESE), 150–154
areas of research, 151
courses, 580–586
graduate program, 408–410
laboratories, 152–154
undergraduate minor, 283
Equal Employment Opportunity Coordinators
harassment, 112–113
nondiscrimination, 63
equal opportunity policies employment, 62–65
transfer students, 181
essays for admission application, 176
ethical conduct, Code of Conduct, 18, 43–45
evaluations
for admission application, 176
written English, for transfer application, 180
events and event planning, 24, 43. See also student activities
evidence, sex- and gender-based misconduct, 68, 95
exchange programs, 182
École Polytechnique graduate exchange program, 358
graduate program, 321, 333
Scripps Institution of Oceanography, 12, 333
expenses. See also financial aid
graduate program, 341–343
undergraduate expenses, 201–206
exploitation, sexual, 78
export laws and regulations, policy regarding, 48–50
F
facilities. See buildings and facilities
faculty listings, 719–817
officers and committees, 716–718
faculty research, 12–13
faculty-student relations, 18
Fairchild Library of Engineering and Applied Science, 15, 160
false reports, sex- and gender-based misconduct, 72
federal agencies. See also specific agencies by name reporting, sex- and gender-based misconduct, 74
Federal direct loans, 210–214
Federal financial aid
direct loans, 210–214
FAFSA, 206
Ford Federal Direct Loan Program, 209–214
Pell Grants, 208
refunds and repayments, 203–204
Supplemental Educational Opportunity Grant, 208
Work-Study program, 215
Federal Pell Grants, 208
Federal Supplemental Educational Opportunity Grant, 208
Federal Work-Study (FWS) program, 215
fees and expenses, 201–206. See also financial aid
fellowships, graduate, 345
F (failed) grades, 29–30, 32–33
film courses, 702–705
financial aid, 206–222
applying for, 207
assistantships, 344–345
Caltech loans, 214
class level, 220
direct loans, 209–214
disbursement of, 217–218
emergency loans, 214
emergency programs, 214
employment, 215
FAFSA, 206
Federal Pell Grants, 208
Federal Student Aid Ombudsman, 214
Federal Supplemental Educational Opportunity Grant, 208
graduate program, 344–345
international applicants for, 207
loans, 209–214
Parent PLUS Loan, 212–214
part-time enrollment, 221–222
probation, 219–220
Satisfactory Academic Progress, 218–220
scholarships, 208
State grants, 209
studying abroad, 215–216
suspension, 220
time limits, 220
types available, 208
underload, 221–222
warnings, 219
work study programs, 215
firearms and weapons, 114
Firestone Flight Sciences Laboratory, 121
first-year courses, 236–238
Fleming House, 16, 178
fluid mechanics and jet propulsion laboratories, 15–16. See also JPL (Jet Propulsion Laboratory)
Ford Federal Direct Loan Program, 209–214
foreign languages, 156
courses, 636–641
English language proficiency, 180, 320
foreign study. See study abroad and study away programs
formal complaints, sex- and gender-based misconduct, 88–89
founding, history, 10
Free Application for Federal Student Aid (FAFSA), 206
freshman advisors, 18
freshman seminars, 586–589
G
GALCIT (Graduate Aerospace Laboratories), 121–125, 354
Gates Laboratory, 137
Gates-Thomas Laboratory of Engineering, 138
Geffen School of Medicine, UCLA, 12
gender-based misconduct policies, 65–102
definitions, 76
general deposit, 201, 205
general information, 8–118
geobiology. See also geological and planetary sciences
courses, 589–606
undergraduate option, 286–287
gEOChemistry. See also geological and planetary sciences
courses, 589–606
undergraduate option, 287–288
gEOHysics. See also geological and planetary sciences
courses, 589–606
double majors, 284
graduate program, 411–416
library, 5
observatories, 154–155
physical facilities, 154–155
undergraduate minor, 291
undergraduate option, 284–291
gEology. See also geological and planetary sciences
courses, 589–606
North Mudd Library for Geology, 15
undergraduate option, 284–286
gEOPhysics. See also geological and planetary sciences
courses, 589–606
undergraduate option, 289–290
grade-point average (GPA). See grades and grading
grades and grading, 29–34
computing GPA, 32
dispute resolution, 21, 33–34
Gymnasiums, 19

H

Hacker Social Science Experimental Laboratory (SSEL), 169, 172
Hale, George Ellery, 10
Hale Telescope, 129
Hameetman Center, 17, 24
Handshake, 28
harassment policies, 65–102, 107–113
definitions, 75–77, 81
Health and Human Services Department, US, 12
health careers advising, 27
health center, 112. See also health services
health form, 25
health insurance, 25
health services, 24–25, 112, 343
confidential resources, 111–112
emergency contact notification policy, 39
environment, health, and safety policies, 57–61
Student Health Portal, 25
high school requirements for admission, 175
history (course of study), 156
courses, 606–621, 702–705
graduate programs, 416
undergraduate minor, 293
undergraduate option, 291–293
history and philosophy of science (HPS), 155
courses, 614–621
graduate program, 416–417
undergraduate minor, 296
undergraduate option, 294–296
history of CalTech, 10
archives and special collections, 15
Hixon Writing Center (HWC), 14
Honor Code, 20–21
Honor System, 20–21
graduate expenses, 343
undergraduate expenses, 205
housing
Catalina Graduate Apartment Complex, 343
contracts, 201–202
graduate students, 343
Interhouse Committee, 19
Office of Residential Experience, 17
residency expectations, 178
undergraduate students, 16–17
Hull Spalding Laboratory of Engineering, 136
humanities and social sciences, 156–157, 168–172. See also specific courses of study
allowance and transfer of credit, 200–201
areas of research, 156–157, 169–172
core curriculum requirements, 234–235
drop policies, 191
graduate program, 441–444
libraries, 15, 156
HWC (Hixon Writing Center), 14

I
I (incomplete) grades, 30–31
ID card charges, 206, 342
incomplete grades, 30–31
information. See also academic records; emergency notifications; privacy electronic information resources policy, 45–48
information and data sciences (IDS), 157–158
courses, 632–635
double majors, 298–299
undergraduate minor, 300–301
undergraduate option, 297–301
information science and technology (IST), 158
classroom buildings, 158
courses, 635
initiative, 142
laboratories, 158
Information Science and Technology (IST) Initiative, 142
Infrared Processing and Analysis Center (IPAC), 130
injuries. See health services; violence Institute for Quantum Information, 165
instruction and research staff, 719–817
insurance, health insurance for students, 25
intellectual property, Student Patent and Computer Software Agreement, 41–43
interdisciplinary studies program (ISP), 158, 301–302, 635–636
Interhouse Committee (IHC), 19
interlibrary loan, 15
International Baccalaureate (IB) programs, 177–178
International English Language Testing System (IELTS), 320
International Student Programs (ISP), 29
international students financial aid, 207
graduate programs, 320
International Student Programs, 29
internships, 27, 28
intramural athletics, 19
introductory laboratory requirement, 233–234
inventions, Student Patent and Computer Software Agreement, 41–43
investigation, sex- and gender-based misconduct complaints, 93–100
involuntary leaves of absence, 194–197, 326–327

J
jet propulsion laboratories. See JPL (Jet Propulsion Laboratory); Kármán Laboratory of Fluid Mechanics and Jet Propulsion
joint programs, 12
JPL (Jet Propulsion Laboratory), 15–16, 155
astrophysics and, 130
environment, health, and safety policies, 57–61
Environmental Affairs Program Office, 59–60
Occupational Safety Program Office, 59–60
Office of Safety and Mission Success, 59
physics and, 166
visitors and contractors, 60, 61

K
Kármán Laboratory of Fluid Mechanics and Jet Propulsion, 121
Kavli Nanoscience Institute (KNI), 13, 128, 147, 159, 161, 165
Keck Array, 130, 155
Keck Engineering Laboratories, 138, 159
Keck Observatory, 130, 167
Keck School of Medicine, USC, 12
Kellogg Radiation Laboratory, 160, 166
Kerckhoff Laboratories of Biological Sciences, 134
Kerckhoff Marine Biological Laboratory, 134

L
laboratories. See also specific programs
Alles Laboratory for Molecular Biology, 134
Beckman Institute, 13, 134
Beckman Laboratory of Chemical Synthesis, 138
Braun Laboratories, 134, 138
Bridge Laboratory of Physics, 166
Broad Center for the Biological Sciences, 134, 138
Caltech Micromachining Laboratory, 147
Cann Laboratory, 124
Charyk Laboratory of Bioinspired Design and Biopropulsion, 121
Church Laboratory for Chemical Biology, 134, 138
Crellin Laboratory, 137
Downs Laboratory of Physics, 166
Firestone Flight Sciences Laboratory, 121
GALCIT, 121–125, 354
Gates Laboratory, 137
Gates-Thomas Laboratory of Engineering, 138
Guggenheim Aeronautical Laboratory, 121
Hacker Social Science Experimental Laboratory, 169, 172
Hull Spalding Laboratory of Engineering, 136
introductory laboratory requirement, 233–234
JPL. See JPL (Jet Propulsion Laboratory)
Kármán Laboratory of Fluid Mechanics and Jet Propulsion, 121
Keck Engineering Laboratories, 138, 159
Kellogg Radiation Laboratory, 160, 166
Kerckhoff Laboratories of Biological Sciences, 134
Kerckhoff Marine Biological Laboratory, 134
Laboratory for Experimental Economics and Political Science, 169, 172
Lauritsen Laboratory of High Energy Physics, 166
Linde + Robinson Laboratory for Global Environmental Science, 152–154
Mead Memorial Undergraduate Chemistry Laboratory, 138
Micromachining Laboratory, 147
Moore Laboratory of Engineering, 144, 158
Noyes Laboratory of Chemical Physics, 138
Schlinger Laboratory for Chemistry and Chemical Engineering, 136, 138
Seismological Laboratory, 155
Sloan Laboratory of Mathematics and Physics, 166
Social and Information Science Laboratory, 158
Social Science Experimental Laboratory, 168
Spalding Laboratory of Engineering, 136
Steele Laboratory of Electrical Sciences, 128, 159
Watson Laboratories of Applied Physics, 128
Laboratory for Experimental Economics and Political Science (LEEPS), 169, 172
language courses, 636–641. See also English

English as a Second Language, 320, 579–580
Laser Interferometer Gravitational-wave Observatory (LIGO), 130, 167
late payment fee, 205
late registration fees, 205, 342
laundry, 17, 18
Lauritsen Laboratory of High Energy Physics, 166
law courses, 641
law enforcement. See also criminal activity
reporting sex- and gender-based misconduct, 71, 83–89
leaves of absence
conflicts of interest, 331
graduate students, 323–327, 331
undergraduate students, 192–196
Lee Center for Advanced Networking, 158
libraries, 15, 16, 18. See also specific program
archives and special collections, 15
Cahill Library for Astrophysics, 15
career library, 27
Dabney Library for Humanities and Social Sciences, 15
Fairchild Library of Engineering and Applied Science, 15, 160
Lookout, 15
LIGO (Laser Interferometer Gravitational-Wave Observatory), 130, 167
Linde Hall of Mathematics and Physics, 160
Linde + Robinson Laboratory for Global Environmental Science, 152–154
Lloyd House, 16, 178
loans, student, 209–214, 345
London Scholars Program, 187–189
Lookout (Millikan Building), 15

M
mail, student, 16
majors (options), 11–12, 198–200. See also specific option or program
management courses, 501–504
map of campus, 6
Marks House, 17, 178
Master of Science degrees, 319
requirements, 334–335
materials science, 158–159
areas of research, 158–159
courses, 641–645
graduate program, 417–422
laboratories, 159
undergraduate option, 303–305
mathematics, 159–160. See also
computing and mathematical sciences
AP/IB credit, 177–178
applied and computational mathematics, 125–126
areas of research, 159–160
classroom buildings, 160
courses, 457–464, 542–544, 645–653
graduate programs, 358–361, 401–403, 422–425
undergraduate option, 306–307
Mead Memorial Undergraduate Chemistry Laboratory, 138
mechanical engineering, 160–161
areas of research, 160–161
courses, 654–661
facilities, 161
graduate program, 425–429
undergraduate option, 307–310
medical emergencies, contact notification policy, 39
medical engineering, 161–162
areas of research, 161–162
courses, 661–664
graduate program, 429–431
medical leaves of absence, 193–194, 324–326
medical services. See health services medicine. See also medical engineering
Caltech-Kaiser Permanente School of Medicine MD/PhD Program, 382
Caltech-UCLA Medical Scientist Training Program (MSTP), 382
Caltech-USC MD/PhD Program, 383
premedical program, 251
Melbourne Scholars Program, 189
mental health services, 25–26, 112
confidential resources, 112
harassment, 109, 112–113
violence, victims of, 116–117
menu classes, 233
microbiology, 163
Micromachining Laboratory, 147
Millikan, Robert A., 10
Millikan Memorial Building, 15
minor programs of study. See also specific programs
graduate program, 337
minors
reporting sex- and gender-based misconduct, 72
statutory rape and incest, defined, 82
students, emergency contact notification policy, 39
missing persons, emergency contact notification policy, 39
mission, 1, 9
molecular biophysics. See biochemistry and molecular biophysics
Moore Laboratory of Engineering, 144, 158
music courses, 664–666
music rehearsal facilities, 17
N
National Aeronautics Space Administration (NASA), 12
reporting, sex- and gender-based misconduct, 74
National Institutes of Health, graduate research and, 330
National Science Foundation (NSF) conflict of interest requirements, 54
graduate research and, 330
research funding, 12
neurobiology, 163–164
courses, 666–667
graduate program, 431–433
neuroscience, 167–168
Chen Institute for Neuroscience at Caltech, 13
graduate programs, 431–433, 438–440
new student orientation, 178
nonconsensual sexual contact, 78
nondiscrimination and equal opportunity policies
employment, 62–65
transfer students, 181
North Mudd Library for Geology, 15
notices and agreements, legal, 34–43
notifications and warnings. See also emergency notifications
emergency contact notification policy, 38–40
Noyes, Arthur A., 10
Noyes Laboratory of Chemical Physics, 138
O
observatories and observational facilities, 129–130, 154–155. See also telescopes
Caltech Submillimeter Observatory, 130, 166, 167
Combined Array for Research in Millimeter-wave Astronomy, 130
geological and planetary sciences, 154–155
Infrared Processing and Analysis Center, 130
Keck Observatory, 130, 167
Laser Interferometer Gravitational-wave Observatory, 130, 167
Owens Valley Radio Observatory, 130, 155, 167
Palomar Observatory, 129, 155, 167
satellites, 130
Spitzer Science Center, 130

Index
Occidental College and Art Center
College of Design, 12
off-campus facilities, 166–167
Office of Research Compliance, 21
Office of Residential Experience (ORE), 17–18
Office of Safety and Mission Success (JPL OSMS), 59
officers listings, 709
administrative officers, 713–715
faculty and officers, 760–817
option advisors, 19
options (majors), 11–12, 198–200. See also specific option or program
orientation, new student, 178
Oschin Telescope, 129
outstanding bills
graduate program, 342
registration and, 190, 205–206
overload of classes, 200
Owens Valley Radio Observatory (OVRO), 130, 155, 167

P
Page House, 16, 178
Palomar Observatory, 129, 167
parent emergency contact notification policy, 38–40
Parent PLUS Loan, 212–214
partnerships, academic, 12. See also dual degree programs
Caltech-Kaiser Permanente School of Medicine MD/PhD Program, 382
Caltech-UCLA Medical Scientist Training Program (MSTP), 382
Caltech-USC MD/PhD Program, 383
Dual Degree Programs, 181–182
part-time enrollment and underloads, 200
financial aid, 221–222
graduate programs, 328–329
refunds and repayments, 204
Pasadena, CA, 9
pass/fail grading, 29–30, 32–33
patents, Student Patent and Computer Software Agreement, 41–43
Pearson Test of English Academic (PTE Academic), 320
Pell Grants, 208
performing and visual arts, 22
courses, 667–670, 702–705
music rehearsal facilities, 17
rehearsal facilities, 17
persistence rates, student, 43
personal leaves of absence, 192–193, 323–324
P grades (pass/fail), 29–30, 32–33
philosophy (course of study), 156. See also history and philosophy of science
courses, 670–672
undergraduate minor, 312
undergraduate option, 310–312
philosophy of Caltech, educational, 9–10
physical education
Athletics, Physical Education
& Recreation department, 19
core curriculum, 235
courses, 672–678
facilities, 19
gymnasiums, 19
physical plant. See buildings and facilities
physics, 164–167. See also astrophysics; biochemistry and molecular biophysics
aerospace areas of research, 122
AP/IB credit, 178
areas of research, 131, 164–166
courses, 466–480, 678–688
graduate programs, 365–375, 433–437
laboratories, 166
undergraduate option, 312–314
plagiarism, 21, 69, 95
planetary science. See also geological and planetary sciences
undergraduate option, 290–291
policies, 45–118
conflicts of interest, 50–55
disability and reasonable accommodation, 55–57
developmental education programs, 181–182
electronic information resources, 45–48
environment, health, and safety, 57–61
export laws and regulations, 48–50
harassment, 107–113
institutional conflicts of interest, 54–55
National Science Foundation conflict of interest requirements, 54
nondiscrimination and equal employment opportunity, 62–65
Public Health Service conflict of interest requirements, 54
sexual misconduct, 65–102
Student Affairs, 118
substance abuse, 39–40, 102–107
unlawful harassment, 107–113
violence prevention, 113–117
whistleblower, 117–118
political science
courses, 688–691
undergraduate option, 315–316
postdoctoral and senior postdoctoral scholars, 13
postgraduate school advising, 27
pregnancy leaves of absence, 194,
325–326
pre-health careers advising, 27
premedical program, 251
privacy. See also confidential resources
access to academic records, 35–38
confidential resources, 112
sex- and gender-based
misconduct, 72–74
prizes, 222–232, 345–352
Problem-Resolution Process, 41
professional school advising, 27
psychology courses, 691–694
public events, 24, 43
Public Health Service (PHS), conflict of interest requirements, 54

Q
quantum science and engineering,
graduate programs,
437–438

R
records. See academic records
recruiting program, on-campus, 28
Red Door Marketplace, 17, 24
refunds and repayments, 202–205, 345
registration, 190–196
academic advisement, 191–192
allowance and transfer of credit,
200–201
changes, 191–192
cross-registration with other
schools, 12
drop policies, 191
eligibility, 190–191
graduate program, 321–323, 338
humanities drop policy, 191
involuntary leaves of absence,
194–197, 326–327
late registration fees, 205
leaves of absence, 192–196
overloads and underloads, 200
procedures, 190–191
regulations, 190–196
summer research or summer
reading, 192
undergraduate leaves of absence,
192–196
withdrawal, 34, 35, 196
rehearsal (music) facilities, 17
relationship violence, 80
religious life on campus, 24
remedies, sex- and gender-based
misconduct complaints,
100–101
reporting sex- and gender-based
misconduct, 67–72, 83–89
research
aerospace, 121–125
applied and computational
mathematics, 126
applied mechanics, 127
areas of, 120–127
assistantships, 345
astrophysics, 128–129
biochemistry and molecular
biophysics, 131
bioengineering, 132–133
biology, 133–134
centers and institutes, 13. See also
individual names
chemical engineering, 134–136
chemistry, 136–137
computation and neural systems,
139
computer science, 140–142
education and, 11–15
electrical engineering, 144–150
environmental science and
engineering, 151
faculty research, 12–13
funds for graduate students, 345
graduate programs and research,
12
humanities, 156–157
materials science, 158–159
mathematics, 159–160
mechanical engineering, 160–161
medical engineering, 161–162
misconduct, 21, 47, 69, 95
Office of Research Compliance, 21
physics, 164–166
responsible conduct of research,
330
senior thesis, 11
social and decision neuroscience,
167–168
social science, 169–172
staff of instruction and research,
719–759
summer research, 11
undergraduate research, 11
visiting student appointments, 321
residence halls. See housing
residency
graduate program, 321, 334,
337–338
graduation requirement, 199
undergraduate expectations, 178
Residential Associates (RAs), 16, 343
Residential Experience, Office of, 17–18
Residential Life Coordinators (RLCs),
16, 343
Resnick Sustainability Institute, 13
resolution, sex- and gender-based
misconduct complaints,
89–102
retribution for reporting sex- and gender-based
misconduct, 67–68, 84
retention rates, student, 43
Ricketts House, 16, 178
Rosen Bioengineering Center, 13
ROTC program, 190
Ruddock House, 16, 178
S
SAC (Student Activities Center), 18
safety policies, 57–61
sanctions, sex- and gender-based
misconduct complaints, 95, 100
satellites, astronomical, 130
Satisfactory Academic Progress (SAP), 199
financial aid and, 218–220
graduate program, 340–341
Schlinger Laboratory for Chemistry and Chemical Engineering, 136, 138
scholarships, 208
graduate, 345
part-time enrollment, 222
scholastic requirements, 197–201.
See also credits; grades and grading; Satisfactory Academic Progress
allowance and transfer of credit, 200–201
candidacy for Bachelor’s Degree, 199
change of option, 198–199
continuing in option, 198
departmental and option regulations, 198–200
eligibility for enrollment, 197
GPA, 198
graduation requirement, 199
overloads and underloads, 200
selection of option, 198
term examinations, 199
time limits for graduation, 199
undergraduate program, 197–201
scientific and engineering communication (SEC), 167
scientific writing
courses, 694–697
requirement, 236
Scripps Institution of Oceanography (SIO), 12, 333
seismological facilities, 138, 154–155
Seismological Laboratory, 155
senior thesis, 11
sexual assault definitions, 81–82
sexual misconduct policies, 65–102
child abuse, 114–116
definitions, 76–82
Sherman Fairchild Library (SFL), 15, 160
Sloan Laboratory of Mathematics and Physics, 166
Small Particle Hypervelocity Impact Range, 125
social and decision neuroscience, 167–168
graduate program, 438–440
research, 167–168
Social and Information Science Laboratory, 158
Social Science Experimental Laboratory, 168
social sciences. See humanities and social sciences
societies and clubs, 20, 22–24. See also student activities
Software Agreement, Student Patent and Computer, 41–43
Southern California Earthquake Data Center, 155
Southern California Seismic Network, 155
South House laundry room, 18
space engineering graduate program, 354–355
space studies. See aerospace
Spalding Laboratory of Engineering, 136
special fees, 205
special meals, 24
special students, visiting student appointments, 320–321
Spitzer Science Center (SSC), 130
Spitzer Space Telescope Science Center, 130
sports and athletic facilities, 19. See also physical education
staff listings
administrative officers, 713–715
faculty, 716–718
instruction and research, 719–759
Stafford federal Direct loans, 210–212
stalking, 80–81, 82, 114
standardized testing. See testing
state agencies, reporting sex- and gender-based misconduct, 74
Steele Laboratory of Electrical Sciences, 128, 159
store, Student Auxiliary Services, Gift & Technology Store, 17, 24
structural mechanics undergraduate minor, 316
structure of Caltech, 10
student activities, 18–24. See also Hameetman Center;
specific organizations by name
ASCIT, 20, 41
athletics, 19
courses, 701–702
Graduate Honor Council, 21
Graduate Student Council, 20, 41
registration for, 24
sports, 19
Student Activities Center (SAC), 18
Student Affairs policies, 118
Student Auxiliary Services, Gift & Technology Store, 17, 24
student body publications, 20, 21–22
student center, 17, 24
student government, 20
Student Health Portal, 25
student housing. See housing
student life, 16–24
student loans, 209–214, 345
Student Patent and Computer Software Agreement, 41–43
student problem resolution process, 41
student retention and persistence rates, 43

Trustees, Administration, Faculty
student services. See also advisors; counseling services; dining services; Hameetman Center; health services; housing

The Caltech Y, 23
career development services, 26–28
Center for Teaching, Learning, & Outreach, 13–14
crisis services, 16, 25–26
event planning, 24, 43
faculty-student relations, 18
health and counseling services, 112, 343
Hixon Writing Center, 14
Interhouse Committee, 19
mail, 16
problem resolution process, 41
publications, 20, 21–22
Student Activities Center, 18
Student Auxiliary Services, Gift & Technology Store, 17, 24
wellness services, 24–25
student societies and clubs. See student activities
student wellness services, 24–25
study abroad and study away programs, 12, 182–189, 215–216
study spaces, 15. See also libraries
substance abuse policies, 102–107
emergency contact notification policy, 39–40
summer term
internships and jobs, 27, 28
registration for summer research or summer reading, 192
SURF program, 11
Summer Undergraduate Research Fellowships (SURF), 11
Supplemental Educational Opportunity Grant, 208
sustainability, Resnick Sustainability Institute, 13
systems biology, 172

T
teaching assistantships, 344–345
TechLab, 15
telescopes, 129–130. See also observatories and observational facilities

Atacama Large Millimeter/submm Array (ALMA), 130
CARMA, 130
Hale Telescope, 129
Keck Array, 130, 155
Keck Observatory, 155
Linde + Robinson Laboratory for Global Environmental Science, 152
Oschin Telescope, 129
Owens Valley Radio Observatory (OVRO), 130
Palomar Observatory, 129
Spitzer Space Telescope Science Center, 130
Thirty-Meter Telescope, 130, 155
Zwicky Transient Facility (ZTF), 129–130
testing
college entrance examinations, 175–176, 180, 320
Engineer’s degree, 336
scholastic requirements, term examinations, 199
standardized exams, 175–176, 180
Test of English as a Foreign Language, 180, 320
transfer admissions, 180
Test of English as a Foreign Language (TOEFL), 180, 320
textbooks, SFL Course Reserves, 15
therapy services. See counseling services
thesis requirements. See also specific graduate program
Doctor of Philosophy, 337–340
senior thesis, 11
Thirty-Meter Telescope, 130, 155
3/2 Dual Degree Program, 181–182
Throop University, 10
time limits for graduation, 199
Title IX. See also gender-based misconduct policies
definitions, prohibited conduct under, 81–83
Title IX Coordinator, 69–70
complaints of gender-based misconduct, 83–102
harassment, 112–113
nondiscrimination, 63
transcripts, 34–36, 38
Transfer Admissions Entrance Examinations, 180
transfer of credit, scholastic requirements, 200–201
transfer students
admission process, 179–182
application for admission, 181
credit, allowance and transfer of, 200–201
3/2 Dual Degree Program, 181–182
graduation requirements, 180–181
nondiscrimination and equal opportunity, 181
testing for admission, 180
trustees, 709–713
tuition. See also financial aid
graduate program, 341–343
undergraduate expenses, 201–206

U
UASH. See Undergraduate Academic Standards and Honors (UASH) Committee
UCLA

Caltech-UCLA Medical Scientist Training Program (MSTP), 382
Geffen School of Medicine, 12
Undergraduate Academic Standards and Honors (UASH) Committee, 30–31, 197
changes in registration, 191
undergraduate expenses, 201–206.

See also financial aid

Undergraduate Houses and housing, 16–17
residency expectations, 178
undergraduate program, 11, 174–316.

See also registration;
transfer students
admission, 175–182
core curriculum requirements, 232–237
emergency contact notification policy, 39
expenses, 201–206
first-year courses, 236–238
graduation requirements, 232–316
joint B.S./M.S. degrees, 335
options, 174–316
senior thesis, 11
undergraduate research, 11
underload of classes. See part-time enrollment and underloads
unexplained absences, emergency contact notification policy, 39

United HealthCare Student Resources, 25
University of Chicago Study Away Program, 183
University of Copenhagen Scholars Program, 184–185

unpaid bills
graduate program, 342
registration hold, 190, 205–206

USC

Caltech-USC MD/PhD Program, 383
Keck School of Medicine, 12
US Department of Defense, 12
US Department of Energy, 12
US Department of Health and Human Services, 12

V

veterans’ academic records, 34–35
violence and violence prevention
child abuse, 114–116
dating, relationship, or domestic violence, 80, 82
emergency contact notification policy, 39
mental health services, 116–117
prevention policies, 113–117
threats of, 114

visual arts. See performing and visual arts
visual culture courses, 702–705
voluntary leaves of absence, 192–194, 323–326

W

W (withdrawn) grades, 31
warnings. See emergency notifications
Watson Laboratories of Applied Physics, 128
weapons and firearms, 114
wellness services, 24–25. See also health services
whistleblower policy, 117–118
wind tunnels, 124

Winnett Student Center. See Hameetman Center
withdrawal
from course, 31, 34, 35, 191
from Institute, 196, 204–205
refund of tuition and expenses, 202–205
withdrawn grades, 31

work-study listings, 28
writing
courses, 694–697, 706–707. See also scientific writing
Hixon Writing Center, 14
requirements, 236
writing center, 15

Y

The Y, 23, 222, 226, 227, 230

Z

Zwicky Transient Facility (ZTF), 129–130