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 Stimmier 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

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

Louise Kirkbride (1995)
Enterpreneur

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. Taweele (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
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,
Envirotec 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.
Bectel 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

Historical Sketch

Board of Trustees
Philip M. Hawley (1975, 1997)
Chairman
P. M. Hawley, Inc.

Managing Director
Winbridge Company Ltd.

Chair Emeritus
Chairman Emeritus
Intel Corporation

Chairman and Chief Executive Officer (Retired)
Getty Oil Company

Chairman
Rising Realty Partners

Principal
Arthur Rock and Company

Benjamin M. Rosen (1986, 2005)
Chair Emeritus
Chairman Emeritus
Compaq Computer Corporation

Richard M. Rosenberg (1989, 2007)
Chairman and Chief Executive Officer (Retired)
Bank of America Corporation

Vice Chairman (Retired)
General Motors Corporation

Dennis Stanfill (1976, 1999)
Dennis Stanfill Company

Chairman
The TCW Group, Inc.

Senior Vice President for Public Policy (Retired)
Monsanto Company

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. Chemg, M. D. Hummer-Tuttle, R. T. Jenkins, P. D.

* ex officio member

HONORARY LIFE MEMBER

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

Trustees, Administration, Faculty
Executive Compensation Committee—R. K. Linde, Chair; A. Lidow, Vice Chair; G. B. Jones, T. W. Lawrence, D. L. Lee*, S. M. Malcom, P. M. Neches, W. L. Weisman; Standing Attendees: J. M. McCollin, T. F. Rosenbaum


*ex officio member
ADMINISTRATIVE OFFICERS

Thomas F. Rosenbaum  
President

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 Hargeaves  
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—IAUC] (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. Harit†, 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 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. Martinez, 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
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
*ex officio member

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
J. A. Kornfield, 2021
M. Meister, 2023
P. W. Sternberg, 2023
P. P. Vaidyanathan, 2021
D. P. Weitekamp, 2021

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

*ex officio member

J. L. Howes*
A. P. Ingersoll, 2022
C. Jurca, 2023
J. M. McCalin*
B. Mitchell*
D. C. Rees*
J. Y. Tsai

Institute Programs
J. M. Eiller, 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. Kecharis
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

*ex officio member

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
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

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 Guttman, 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

Victoria J. 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

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

Athanassios 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 Tsao, Ph.D.  
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

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1 Joint appointment with Howard Hughes Medical Institute

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

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

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Keita Kawabe, Ph.D.
Davy Kirkpatrick, Ph.D.
Phillip Korngut, 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.
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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

<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabien Defrance, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Dexu Lin, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Jonathan Richardson, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Alessandro Schillaci, Ph.D.</td>
<td>Physics</td>
</tr>
</tbody>
</table>

### Postdoctoral Scholars

<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
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</thead>
<tbody>
<tr>
<td>Anahita Alavi, Ph.D.</td>
<td>Astronomy</td>
</tr>
<tr>
<td>Victor Albert, Ph.D.</td>
<td>Lee DuBridge, Theoretical Physics</td>
</tr>
<tr>
<td>Alina Aleksandrova, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Igor Andreoni, Ph.D.</td>
<td>Astronomy</td>
</tr>
<tr>
<td>Yuntao Bai, Ph.D.</td>
<td>Sherman Fairchild, Theoretical Physics</td>
</tr>
<tr>
<td>Ashley Baker, Ph.D.</td>
<td>51 Pegasi b, Astronomy</td>
</tr>
<tr>
<td>Clément Bonnerot, Ph.D.</td>
<td>Theoretical Astrophysics</td>
</tr>
<tr>
<td>Paz Beniamini, Ph.D.</td>
<td>Theoretical Astrophysics</td>
</tr>
<tr>
<td>McKinley Brumback, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Maria Charisi, Ph.D.</td>
<td>Theoretical Astrophysics</td>
</tr>
<tr>
<td>Joonhee Choi, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Liam Connor, Ph.D.</td>
<td>Tolman, Astronomy</td>
</tr>
<tr>
<td>Riley Connors, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Behnam Darvish Sarvestani, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Derek Davis, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Nils Deppe, Ph.D.</td>
<td>Sherman Fairchild, Theoretical Astrophysics</td>
</tr>
<tr>
<td>Sinan Deger, Ph.D.</td>
<td>Astronomy</td>
</tr>
<tr>
<td>Jérôme Deprince, Ph.D.</td>
<td>Physics</td>
</tr>
<tr>
<td>Yehonathan Drori, Ph.D.</td>
<td>Physics</td>
</tr>
</tbody>
</table>
Arpit Dua, Ph.D.  
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Tega Edo, Ph.D.  
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Iliya Esin, Ph.D.  
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Ulf Christoffer Fremling, Ph.D.  
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Historical Sketch

Jet Propulsion Laboratory

Administered by Caltech for the National Aeronautics and Space Administration

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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

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René Fradet
Chief Financial Officer and Director for Business Operations

David Gallagher
Associate Director for Strategy, Technology and Formulation

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Cozette M. Hart
Director for Human Resources

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

Leslie L. Livesay
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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
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California State University = Cal State
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Professor of Biology, 2005-17; Davis
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Science, Emeritus
A.B., Harvard College, 1950; A.M.,
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1959-60; Associate Professor of
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tary Science, 1999-2002; Professor
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sion Laboratory, 1979-84; Dean of

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B.S., Caltech, 1966; Ph.D., University of Wisconsin, 1969. Bateman Research Instructor, Caltech, 1970-72; Assistant Professor, 1972-74; Associate Professor, 1974-76; Professor, 1976-96; Hanisch Professor, 1996-2013; Hanisch Professor, Emeritus, 2013-. Executive Officer for Mathematics, 1991-94.

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