Department of Embryology, Personnel

July 1, 2017 – June 30, 2018

Staff Members

Alex Bortvin
Donald D. Brown, Director Emeritus
Chen-Ming Fan
Steven A. Farber
Joseph G. Gall
Marnie E. Halpern
William Ludington¹
Allan C. Spradling
Yixian Zheng, Director²

Staff Associates

Christoph Lepper
Zhao Zhang

Postdoctoral Fellows and Associates

Yun Bai, Postdoctoral Researcher³
Amanda Chicoli, Postdoctoral Researcher
Jung-Hwa Choi, Postdoctoral Researcher
Wanbao Niu, HHMI Postdoctoral Researcher
Zehra Nizami, Postdoctoral Researcher
Aki Ohdera, Postdoctoral Researcher
Jessica Otis, Postdoctoral Researcher
Vanessa Quinlivan-Repasi, Postdoctoral Researcher
Vladimir Shiriagin, Postdoctoral Researcher
Matthew Sieber, HHMI Postdoctoral Researcher
Mira Sohn, Postdoctoral Researcher
Jiaxiang Tao, Postdoctoral Researcher
Joseph Tran, Postdoctoral Researcher
John Urban, Postdoctoral Researcher
Chenhui Wang, HHMI Postdoctoral Researcher
Lu Wang, Postdoctoral Researcher
Lu Wang, Postdoctoral Researcher
Xinyi Wang, Postdoctoral Researcher
Meredith Wilson, Postdoctoral Researcher
Zheng-an Wu, Special Investigator
Xiaobin Zheng, Postdoctoral Researcher

Predoctoral Fellows and Associates
Michelle Biederman, The Johns Hopkins University

Jui-Ko Chang, The Johns Hopkins University

Ji Cheng, The Johns Hopkins University

Asya Davidian, St. Petersburg State University

Tyler Harvey, The Johns Hopkins University

Liangji Li, The Johns Hopkins University

Lin Lin, University of Massachusetts Medical Center

Tabea Moll, The Johns Hopkins University

Rebecca Obniski, The Johns Hopkins University

Liang-Yu Pang, The Johns Hopkins University

Neta Schwartz, The Johns Hopkins University

Emma Spikol, The Johns Hopkins University

Gaelle Talhouarne, The Johns Hopkins University

James Thierer, The Johns Hopkins University

Han Xiao, The Johns Hopkins University

Sibiao Yue, The Johns Hopkins University

Supporting Staff

Rosa Alcazar, Coordinator – C-MOOR Project
Myriam Alexander-Kearns – Communications and Administrative Coordinator

Jen Anderson, Research Scientist

Sonya Bajwa, Business Manager

Valerie Butler, Carnegie Science Outreach Coordinator

Patricia Cammon, Glasswash Assistant

Elquis Castillo, Fish Technician

Jean-Michael Chanchu, Research Technician

Stanley Chu, Fish Technician

Jennifer Cook, Administrative Specialist

Ted Cooper, Facilities Assistant

Aiden Danoff, Animal Technician

Carol Davenport, HHMI Research Technician III

Daphne DeShields, Assistant Controller

Eugenia Dikovsky, Animal Facility Manager

Brandie Dobson, Accounting Specialist

Mehran Esteghamat-Rad, Animal Technician

Jorge Sulca Flores, Animal Technician

Lauren Gilmer, Human Resources and Administrative Assistant

Karen Griffin, Student Laboratory Assistant
John Halpin, Student Laboratory Assistant
Jeremy Hayes, Mac Support Specialist
Monica Hensley, Research Technician
Ed Hirschmugl, Information Systems Manager
Lynne Hugendubler, Research Technician
Casey Hussey, Research Technician
Terrone Jasper, Outreach Educator
Connie Jewell, Information Systems Administrator
Glenese Johnson, Glasswash Assistant
Rejeanne Juste, Research Technician
Sammasia King, Administrative Coordinator
Ashley Li, Fish Technician
Rebecca Liao, Student Laboratory Assistant
Yu An (Leon) Lin, Research Technician
Katelyn Macholl, Fish Technician
Michelle Macurak, Research Technician
Ona Martin, Research Technician
Marlow Minor, Animal Technician
Pedram Nozari, Animal Technician
Allison Pinder, HHMI Research Technician III
Christine Pratt, HHMI Administrative Coordinator
Madhu Rajmohan, Fish Technician
Sarina Raman, Student Laboratory Assistant
Wilber Ramos, Animal Technician
Devance Reed, Facilities Assistant
Andrew Rock, Animal Technician
Samantha Satchell, Research Technician
Michael Sepanski, Electron Microscopy Technician
Maggie Shen, Research Technician
Mahmud Siddiqi, Microscope Specialist
Kevin Smolenski, Chief Facilities Engineer
Fred Tan, Bioinformatics Staff Scientist
Carmen Tull, Animal Technician
Robert Vary, Carnegie Science Outreach Educator
Michael Vidal, Fish Technician
Semen Vlasov, Animal Technician
Dianne Williams, HHMI Research Technician III
Carolyn Winston, Student Laboratory Assistant
Visiting Investigators and Collaborators

Katherine Cox, Collaborating Postdoctoral Researcher, Department of Biology, The Johns Hopkins University, Baltimore

1 From June 18, 2018
2 Served as interim co-president from December 2017-June 2018
3 From March 19, 2018
4 To August 6, 2017
5 To November 14, 2017
6 To May 31, 2018
7 From October 20, 2017
8 To August 17, 2017
9 To November 30, 2017
10 To April 2, 2018
11 From June 1, 2018
12 To August 14, 2017
13 Transitioned from Graduate Student to Postdoctoral Researcher September 1, 2017
14 From May 15, 2018
15 To September 1, 2017
16 From February 26, 2018
17 From March 22, 2018
18 From October 2, 2017
19 From November 8, 2017 – April 14, 2018; from July 12, 2018
20 From January 5, 2018
21 From June 1, 2018
22 From April 10, 2018
23 To July 1, 2017
24 From June 1, 2018
25 To June 30, 2018
26 From March 15, 2018
27 To November 21, 2017
28 Transitioned from Graduate Student to Postdoctoral Researcher February 1, 2018, until June 15, 2018
To August 31, 2017
From September 11, 2017
From May 31, 2018
From June 25, 2018
To September 8, 2017
To September 6, 2017
From July 20, 2017
From October 24, 2017
From September 11, 2017
From March 22, 2018
From September 8, 2017
To August 18, 2017
From September 14, 2017
To October 1, 2017
From January 26, 2018 to July 25, 2018
To July 28, 2017
From April 9, 2018
To December 8, 2017
To December 8, 2017
From January 19, 2018
2017-2018 Yearbook
GL Personnel Section

Geophysical Laboratory

Staff Scientists
George D. Cody
Ronald E. Cohen
Yingwei Fei
Alexander F. Goncharov
Robert M. Hazen
Ho-kwang Mao
Bjørn O. Mysen
Douglas Rumble III
Anat Shahar
Andrew Steele
Timothy A. Strobel
Viktor V. Struzhkin
Michael Walter, Director

Research Scientists
Muhetaer Aihaiti, CDAC, ONR, NSF
Maria Baldini, EFree
Reinhard Boehler, EFree, DOE, WDC
Xiao-Jia Chen, HPSTAR
Pamela Conrad, JPL Subcontract to GL
Dionysis Foustakos, NSF, NASA
Stephen A. Gramsch, DOE Programs Coordinator
Kadek Hemawan, CDAC, WDC, EFree
Yufei Meng, NSF, HPSTAR
Ivan Naumov, CDAC
Craig Schiffries, Director, DCO
Junyue Wang, Carnegie, HPSTAR
Maddury Somayazulu, CDAC, EFree
Chang-Sheng Zha, CDAC, DOE

High Pressure Collaborative Access Team (HPCAT)
Arunkumar S. Bommannavar, Beamline Control Scientist, HPCAT
Paul Chow, Beamline Scientist, HPCAT
Rick Ferry, Beamline Associate
Freda Humble, Project Administrator, HPCAT
Rostislav Hrubyak, Research Scientists, HPCAT
Cheng Ji, Postdoctoral Associate, HPCAT
Curtis Kenney-Benson, Beamline Associate, HPCAT
Yoshio Kono, Research Scientist, HPCAT
Yue Meng, Beamline Scientist, HPCAT
Itaru Ohira, Visiting Scientist, HPCAT
Changyong Park, Beamline Scientist, HPCAT
Dmitry Popov, Beamline Scientist, HPCAT
Eric Rod, Beamline Technician, HPCAT
Guoyin Shen, Director, HPCAT
Yu Shu, Postdoctoral Associate, HPCAT
Stanislav Sinogeikin, Associate Director, HPCAT
Jesse Smith, Associate Beamline Scientist, HPCAT
Viktor Struzhkin, Executive Director, HPCAT
Yuming Xiao, Beamline Scientist, HPCAT
Jianjun Ying, Postdoctoral Associate, HPCAT
Larissa Huston, HPCAT Visiting Investigator from Australian National University

Postdoctoral Fellows and Postdoctoral Associates
Michael Ackerson, Carnegie Fellow
Venkata Srinu Bhadram, Postdoctoral Associate, EFRe
Abhisek Basu, Postdoctoral Associate, NSF, EFRe
Neil Bennett, Postdoctoral Associate, NASA, NSF
Gustav Borstad, Postdoctoral Associate, DARPA
Asmaa Boujibar, Carnegie Fellow
Zhixue Du, Carnegie Fellow
Megan Duncan, Postdoctoral Associate, NSF
Stephen Elardo, Postdoctoral Associate, NSF
Daniel Eldridge, Carnegie Fellow
Teresa Fornaro, Carnegie Fellow
Zachary Geballe, Carnegie Fellow
Michael Guerette, Postdoctoral Associate, EFRe
Amol Karandikar, Postdoctoral Associate, EFRe, WDC
Amanda Lindoo, Postdoctoral Associate, NASA
Chao Liu, Postdoctoral Associate, Keck Foundation
Hanyu Liu, Postdoctoral Associate, EFRe
Shi Liu, Carnegie Fellow
Ajay Mishra, Postdoctoral Associate, DOE
Shaunna Morrison, Postdoctoral Associate, Sloan & Hazen Foundations
Peng Ni, Carnegie Fellow
Dhiren Pradhan, Postdoctoral Associate, ONR
Md. Mijanur Rahaman, Postdoctoral Associate, ONR
Simone Runyon, Postdoctoral Associate, Keck Foundation and Sloan Foundation
Svetlana Shkolyar, Carnegie Fellow
Yu Shu, Postdoctoral Associate, HPCAT-NNSA
Wan Si Tang, Postdoctoral Associate, ARMY
Renbiao Tao, Postdoctoral Associate, NSF
Qianqian Wang, Postdoctoral Associate, DARPA
Lisa Warden, Postdoctoral Associate, Sloan and Hazen Foundation
Matthew Ward, Postdoctoral Associate, DARPA
Jing Yang, Postdoctoral Associate, NSF-Geophysics
Jianjun Ying, GL-HPSTAR Postdoctoral Associate, DOE
Li Zhu, Postdoctoral Associate, DARPA
Support Staff
Maceo T. Bacote, Building Engineer
Tyler Bartholomew, Instrument Maker
Gary A. Bors, Facility Manager
Emma Bullock, Microbeam Specialist
Pablo D. Esparza, Maintenance Technician
Mary Ferranti, Archives Technical Assistant
Dyanne Furtado, Staff Accountant
Paul Goldey, Electronics/Microbeam Specialist
Shaun J. Hardy, Librarian
Michelle Hoon-Starr, DCO Program Assistant
William (Bill) E. Key, Building Engineer
Joseph Lai, Instrumentation Engineer
Jeff Lightfield, Controller
Victor Lugo, Shop Foreman
Andrea Mangum, DCO Program Manager
Jennifer Mays, DCO Program Assistant
Otto Medina, Building Engineer
Quintin Miller, Building Engineer Apprentice
Trong T. Nguyen, Assistant Controller
Aline Niyonkuru, Assistant to the Director
Morgan D. Phillips, CDAC and EFree Administrator/Assistant
Gefei Qian, IT/IS Administrator
Javier Rojas, Research Engineer, EFree, DARPA
Michelle Scholtes, Digital Communication/Event Coordinator
Gabor Szilagyi, Information Systems Manager
Helen Venzon, Accounts Payable Specialist
Suzanne Vitale, Microbeam Specialist
Seth Wagner, Machine Shop Apprentice
Merri Wolf, Library Technical Assistant

Summer High School Interns
Ryan Bassett, Montgomery Blair High School
Carolyn Beaumont, High School Intern, The Potomac School
Raya Dabbi, Thomas Jefferson High School
Eric Hao, Montgomery Blair High School
Eli Harrison, High School Intern, Landon School
Colin Jones, Maret School
Alexandra Poltorak, Thomas Wootton High School
Matthew Shu, Montgomery Blair High School
Justin Zhang, Montgomery Blair High School
Summer Scholars
Lavontria (Miche’) Aaron, *Sam Houston State University in Texas*
Michael N. Hudgins, *Towson University*
Kyle Hurley, *Towson University*
Ada Morral, *Virginia Tech*
Ernestina Appiah, *University of Camerino, Italy*

Visiting Investigators
Catharine Conley, *NASA Ames*
Olivier Gagné, *University of Manitoba, Canada*
Wojciech Grochal, *University of Warsaw, Warsaw (Poland)*
Shuqing Jiang, *Institute of Solid State Physics, PR China*
Dr. Murray W. Hitzman, *University College Dublin, Ireland*
Yanhao Lin, *Vrije University of Amsterdam, Netherlands*
Teerachote Pakornchote, *Chulalongkorn University, Thailand*
Feifei Pan, *Rensselaer Polytechnic Institute*
Anirudh Prabhu, *Rensselaer Polytechnic Institute*
Edgar Steenstra, *Vrije University of Amsterdam, Netherlands*
Todd Zapata, *Max Planck Institute for Polymer Research, Germany*

1 From April 2, 2018
2 To January 5, 2018
3 To April 27, 2018
4 From August 14, 2017
5 To September 27, 2017
6 To December 15, 2017
7 To February 28, 2018
8 To November 30, 2017
9 To June 8, 2018
10 From April 2, 2018
11 From August 28, 2017
12 To July 27, 2017
13 To September 23, 2017
14 To November 10, 2017
15 To May 4, 2018
16 To August 25, 2017
17 To June 29, 2018
18 To January 31, 2018
19 To June 29, 2018
20 From September 18, 2017
21 From September 5, 2017
22 To May 31, 2018
23 To January 31, 2018
24 To December 8, 2017
25 From September 1, 2017
26 From September 1, 2017
27 From August 28, 2017
28 From August 28, 2017
29 From January 9, 2018
30 To April 10, 2018
31 From February 5, 2018
32 From July 1, 2017
33 From January 2, 2018
34 To October 13, 2017
35 From December 11, 2017
Personnel 2017-2018
July 1, 2017 to June 30, 2018

Department of Global Ecology

Research Staff Members
Gregory Asner
Joseph A. Berry, Acting Director
Kenneth Caldeira
Robin Martin
Anna Michalak

Visiting Investigators
James Askew, University of Southern California (from 5/14/18)
Katharine Mach, Intergovernmental Panel on Climate Change

Graduate Students
Christa Anderson, Stanford University
Grayson Badgely, Stanford University
Rachel Carlson, Stanford University (from 6/18/18)
Emily Francis, Stanford University
Rachel Engstrand, Stanford University
Jeff Ho, Stanford University
Becky Niemiec, Stanford University
Elsa Ordway, Stanford Wood Institute for the Environment
Nina Randazzo, Stanford University
Matthew Shultz, Stanford University
Eva Sinha, Stanford University

Pre/Postdoctoral Fellows and Associates
Lee Anderegg, Carnegie Fellow
Christopher Balzotti, Postdoctoral Research Associate
Phil Broderick, Carnegie Fellow
Patrick Brown, Postdoctoral Research Associate
K. Dana Chadwick, NSF Fellow
Danny Cullenward, Postdoctoral Research Associate
Andrew Davies, Mellon Foundation Postdoctoral Research Associate
Lei Duan, Predoctoral Research Associate (from 11/27/17)
Clara Garcia-Sanchez, Postdoctoral Research Associate (from 10/1/17)
Dario Del Giudice, Postdoctoral Research Associate (to 1/15/18)
Anna Goldstein, Postdoctoral Research Associate (from 9/1/17)
Frederick Draper, Carnegie Fellow
Yuanyuan Fang, NASA, DOE Postdoctoral Research Associate
Shawna Foo, Postdoctoral Research Associate
Jennifer Johnson, Postdoctoral Research Associate
Ari Kornfeld, Senior Postdoctoral Research Associate
David Koweek, Postdoctoral Research Associate
Pramukta Kumar, Postdoctoral Research Associate (from 6/15/18)
Jiwei Li, Postdoctoral Research Associate (from 6/13/18)
Scot Miller, Carnegie Fellow (to 12/31/17)
Geeta Persad, Postdoctoral Research Associate
Anna Possner, Postdoctoral Research Associate
Kate Ricke, *Carnegie Fellow*
Daniel Sanchez, *Postdoctoral Research Associate (to 8/4/17)*
Yoichi Shiga, *Postdoctoral Research Associate (from 2/28/18)*
Sinan Sousan, *Postdoctoral Research Associate*
Fan Tong, *Postdoctoral Research Associate (from 8/1/17)*
Peter Turner, *Postdoctoral Research Associate (to 11/13/17)*
Rong Wang, *Postdoctoral Research Associate (to 1/29/18)*
Mary Whelan, *NSF Fellow*
Mengyao Yuan, *Postdoctoral Research Associate (from 1/10/18)*

**Interns / Volunteers**
Zihan Chen, *Intern*
Flor Maciel, *Intern*
Neosha Narayanan, *Intern*

**Supporting Staff**
Adam Baljevich, *Technician (to 8/18/17)*
Jessamy Barker, *Executive Administrator*
Loreli Carranza-Jimenez, *Laboratory Technician (to 8/15/17)*
Heather D’Angelo, *Project Manager (from 6/18/18)*
Kathleen Denniston, *Laboratory Assistant (to 7/31/17)*
William Hayes, *Scientific Computer Programmer*
Joseph Heckler, *CAO Mapping Technologist*
Edward Kleiner, *IT Technician*
David Knapp, *Scientific Computer Programmer*
Seth Lalonde, *Research Analyst (to 9/1/17)*
Clare LeDuff, *Research Facilitator/Operations Specialist*
Michael Mastrandrea, *Director Near Zero Project*
Mae Qiu, *Scientific Computer Programmer*
Munish Sikka, *Computational Data Processor, (from 3/19/18)*
Nick Vaughn, *Head CAO Instrumentation & Data Processing*
Leslie Willoughby, *Science Writer (from 12/1/17)*
The Observatories

Staff Scientists
Andrew Benson
Rebecca Bernstein
Alan Dressler, *Staff Member Emeritus*
Juna Kollmeier
Nicholas Konidaris
Patrick McCarthy
Andrew McWilliam
John Mulchaey, *Director*
Andrew Newman
Augustus Oemler, Jr., *Director Emeritus*
Eric Persson, *Staff Member Emeritus*
Mark Phillips, *Director, Las Campanas Observatory*
Anthony Piro
George Preston, *Director Emeritus*
Michael Rauch
Gwen Rudie
François Schweizer, *Staff Member Emeritus*
Stephen Shectman
Joshua Simon
Ian Thompson
Ray Weymann, *Director Emeritus*

Research Associates
Christopher Burns, *Research Associate*
Jeffrey Crane, *Staff Associate*
Dan Kelson, *Staff Associate*
Barry Madore, *Senior Research Associate*

Postdoctoral Fellows and Associates
Katherine Alatalo, *Hubble Fellow*
Alex Alarcón, *Research Assistant*
Eduardo Bañados, *Carnegie-Princeton Fellow*
Rachael Beaton, *Postdoctoral Research Associate*
Thomas Connor, *Postdoctoral Research Associate*
Maria Drout, *Hubble Fellow*
K. Decker French, *Hubble Fellow*
Terese Hansen, *Postdoctoral Research Associate*
Thomas Holoien, *Carnegie Fellow*
Alexander Ji, Hubble Fellow
Yu Lu, Postdoctoral Research Associate
Rosalie McGurk, Carnegie Fellow
Sandy Moak, Research Assistant
Stefano Pasetto, Postdoctoral Research Associate
Shannon Patel, Research Associate
Nicole Relatores, Research Assistant
Amber Roberts, Research Assistant
Marja Seidel, Postdoctoral Research Associate
Mark Seibert, Senior Research Analyst
Benjamin Shappee, Hubble Fellow
Allison Strom, Carnegie Fellow
Johanna Teske, Hubble Fellow
Stephanie Tonnesen, Carnegie-Nashman Fellow
Jennifer van Saders, Carnegie-Princeton Fellow

Las Campanas Research Staff
Leopoldo Lira Infante, Director, Las Campanas Observatory
David Osip, Associate Director, Las Campanas Observatory
Mark Phillips, Director Emeritus, Las Campanas Observatory

Las Campanas Fellows and Associates
Carlos Contreras, Postdoctoral Fellow

Las Campanas Resident Astronomer
Nidia Morrell, Resident Astronomer

Supporting Staff, Pasadena
Leon Aslan, Senior Opto-Mechanical Engineer
Christoph Birk, Data Acquisition Programmer
Jerson Castillo, Instrument Maker
Paul Collison, Computer Systems Manager
Jorge Estrada, Electronics Technician
Beverly Fink, Assistant to the Director
Tyson Hare, Mechanical Engineer
Charles Hull, Opto-Mechanical Engineer
Earl Harris, Shipping and Receiving Specialist
Patricio Jones, Electronics Engineer
Sharon Kelly, Senior Buyer
Vincent Kowal, Machine Shop Foreperson/Instrument Maker
Becky Lynn, Administrative Assistant
Kristin Macklin, Business Manager-Controller
Greg Ortiz, Assistant, Buildings and Grounds
Luis Ochoa Ramirez, Accounts Payable Specialist
Jeffery Rich, Outreach Coordinator
Scott Rubel, Facilities Manager
Sung-Ri Sok, Financial Accountant
Robert Storts, Instrument Maker
Irina Strelnik, Assistant Business Manager
Gillian Tong, Accounting Analyst
Alan Uomoto, Observatory Technical Manager
Sarah Whitten, Library/Archivist Intern

Supporting Staff, Las Campanas
Gustavo Miriel Abarca, Magellan Maintenance Support
Ricardo Alcayaga, Mechanic
Hernán Ángel, Driver/Purchaser
Nicolas Angel, El Pino Guard
Jorge Araya, Magellan Telescope Operator
Héctor Balbontín, Chef
Ivan Barraza, El Pino Guard
Yuri Beletsky, Magellan Instrument Support Scientist
Roberto Bermúdez, Administrative Assistant
Guillermo Mendiberri Blanc, Staff Associate Astronomer
Andres Borquez, Chef
Konstantina Boutsia, Magellan Instrument Scientist
Jorge Bravo, Magellan Instrument Specialist
Alfredo Calderon, Janitor
Juan-Carlos Carrasco, Driver/Purchaser
Pedro Carrizo, Plumber
Jilberto Carvajal, Purchasing Assistant
Sergio Castellon, Night Assistant
Emilio Cerda, Magellan Electronics Engineer
Andres Condore, Electrician
José Cortés, Janitor
Fernando Virgilio Camilo Corvetto, Janitor
Francisco Di Mille, Technical Manager
Oscar Duhalde, Mechanical Technician
Juan Espoz, Mechanic
Juan N. Espoz, Electronics Engineer
Carlos Flanega, Janitor
Juan Gallardo, Mechanical Engineer
Fernando Vega Alexis Gomez, Chef Assistant
Jaime Gómez, Accounting Assistant
Danilo González, Magellan Maintenance Support
Consuelo González, Night Assistant
Luis González, Janitor
Erwin Guerra, Carpenter
Javier Gutiérrez, Mechanical Technician Assistant
Nelson Ibacache, Mechanical Assistant
Patricio Jones, *Magellan Electronics Engineer* 23
Ester Cortez Nelda Jucia, *Purchasing Officer*
Oscar Juica, *Plumber* 24
Luis Letelier, *El Pino Guard* 25
Eduardo Lizardi, *Administrative Assistant*
Angelica Leon, *Magellan Telescope Operator*
Gabriel Martin, *Magellan Instrument Specialist* 26
Mauricio Martinez, *Magellan Telescope Operator*
Jonathan Medalla, *Accountant*
Miguel Méndez, *Mechanical Technician*
Victor Meriño, *Magellan Instrument Specialist*
Javier Mery, *Electrician* 27
Manuel Millar, *Maintenance Support*
Eric Muñoz, *Accountant*
Silvia Muñoz, *Business Manager*
Mauricio Navarrete, *Magellan Instrument Specialist*
Hernán Nuñez, *Magellan Telescope Operator*
Miguel Ocaranza, *Administrative Assistant*
Herman Olivares, *Night Assistant*
Jorge Olivares, *Mechanic*
Povilas Palunas, *Telescope Scientist*
Alberto Pastén, *Magellan Telescope Operator*
Patricio Pinto, *Electronics Engineer*
Galie Encina Perla Pommer, *Administrative Assistant*
Gabriel Prieto, *Programmer*
Félix Quiroz, *Mechanical Technician*
Javiera Rey, *Communications and Extension Manager* 28
Andres Rivera, *Electronics Engineer*
Hugo Rivera, *Magellan Telescope Operator*
Armando Rodriguez, *Janitor* 29
Marcelo Rodríguez, *Supervisor of Mountain Maintenance*
Herman Rojas, *Web Page Specialist*
Jorge Rojas, *Janitor*
Mauricio Rojas, *Janitor*
Felipe Sánchez, *Telescope Controls Operator*
Pedro Tirado, *Carpenter*
Manuel Traslaviña, *Heavy Equipment Operator*
Reinaldo Vega, *El Pino Guard*
Edgar Veléz, *Mechanic*
Sergio Veléz, *Supervisor of Mountain General Services*
David Verdugo, *Chef*
Emilio Weinberger, *Mechanical Engineer* 30
Jose Zamora, *Chef*
Lionel Zumaran, *System Manager* 21
Visiting Investigators

Carson Adams, California Institute of Technology
Gustavo Aguiayo, Universidad de Concepción, Chile
Claudia Aguilera, Pontificia Universidad Católica de Chile
Javiera Ahumada, Universidad de Chile
Romina Ahumada, Universidad Andrés Bello, Chile
Andres Almeida, Universidad de La Serena, Chile
Timo Anguita, Universidad Andrés Bello, Chile
Maria Argudo, University of Antofagasta, Chile
Vincenzo Aronica, Universidad de Concepción, Chile
Jeb Bailey, University of Michigan
Gaspar Bakos, Princeton University
Rodolfo Barba, Universidad de La Serena, Chile
Daniela Barrientos, Universidad de Chile
Felipe Barrientos, Pontificia Universidad Católica de Chile
Manuel Barrientos, Pontificia Universidad Católica de Chile
Andrew Battisti, The Australian National University
Franz Bauer, Harvard University, Department of Astronomy
Jaclyn Baughman, University of Colorado
Matthew Bayliss, Massachusetts Institute of Technology
Amelia Bayo, Universidad de Valparaiso, Chile
Juan Beamin, Universidad de Valparaiso, Chile
Rachael Beaton, Princeton University
Juliette Becker, University of Michigan
Bradford Benson, The University of Chicago
Patricia Bessiere, Pontificia Universidad Católica de Chile
Theodoros Bitsakis, Instituto Nacional de Astrofísica, Optica y Electronica, Mexico
Peter Blanchard, Harvard University, Department of Astronomy
Lindsey Bleem, Argonne National Laboratory
Victoria Bollo, Universidad de Chile
Rongmon Bordoloi, Massachusetts Institute of Technology
Amanda Bosh, Massachusetts Institute of Technology
Antonin Bouchez, Giant Magellan Telescope Organization
Rafael Brahms, Pontificia Universidad Católica de Chile
Warren Brown, Smithsonian Astrophysical Observatory
Elizabeth Buckley-Geer, The University of Chicago
Paul Butler, Department of Terrestrial Magnetism, CIW
Ivan Cabrera, Harvard University, Department of Astronomy
Claudio Caceres, Universidad Andrés Bello, Chile
Antonello Calabro, CEA Saclay, France
Michael Calzadilla, Massachusetts Institute of Technology
Abdo Campillay, Universidad de La Serena, Chile
Julio Carballo, Pontificia Universidad Católica de Chile
Andrew Casey, Monash University, Australia
Norberto Castro, University of Michigan
Peter Challis, Harvard University, Department of Astronomy
Hsiao-Wen Chen, The University of Chicago
Igor Chilingarian, Smithsonian Astrophysical Observatory
Anyrudh Chiti, Massachusetts Institute of Technology
Laird Close, The University of Arizona
Judy Cohen, California Institute of Technology
David Concha, Universidad de Valparaiso, Chile
Carlos Contreras, National Science Foundation
Thomas Cooper, Massachusetts Institute of Technology
Pia Cortes, Universidad de Chile
Denija Cnojevic, Texas Tech University
Zoltan Csubry, Princeton University
Gary Da Costa, The Australian National University
Emanuele Daddi, CEA Saclay, France
Graczyk Dariusz, Universidad de Concepcion, Chile
Scott Davis, Florida State University
Matthew De Furio, University of Michigan
Ricardo Demarco, Universidad de Concepcion, Chile
Hannah Diamond-Lowe, Harvard University, Department of Astronomy
Matiaz Diaz, Universidad de Chile
Sergio Dieterich, Department of Terrestrial Magnetism, CIW
Jason Dittmann, Harvard University, Department of Astronomy
Xiaobo Dong, Yunnan Observatory, CAS, China
Ewan Douglas, Massachusetts Institute of Technology
Andrea Dupree, Smithsonian Astrophysical Observatory
Mark Egan, Massachusetts Institute of Technology
Nestor Espinoza, Pontificia Universidad Católica de Chile
Taran Esplin, The University of Arizona
Rana Ezzeddine, Massachusetts Institute of Technology
Xiaohui Fan, The University of Arizona
Antonia Fernandez, Universidad de Chile
Daniela Fernandez, Pontificia Universidad Católica de Chile
Jose Fernandez, Universidad de Concepcion, Chile
Robert Fesen, Dartmouth College
Jennifer Fieno, Pontificia Universidad Católica de Chile
Meredith Flaviano, The University of Arizona
Katherine Follette, The University of Arizona
Wen-Fai Fong, The University of Arizona
Danielle Frosting, Harvard University, Department of Astronomy
Waiying Fu, Pomona College
Carla Fuentes, Universidad de Concepcion, Chile
Gabor Furesz, Massachusetts Institute of Technology
Jonathan Gagne, Department of Terrestrial Magnetism, CIW
Yulong Gao, University of Science and Technology of China
Daniel Miller, Massachusetts Institute of Technology
Antonio Milone, The Australian National University
Michael Mommert, Lowell Observatory
Lorenzo Monaco, Universidad Andrés Bello, Chile
Nicholas Mondrik, Harvard University, Department of Astronomy
Christian Moni Bidin, University Católica del Norte, Chile
Katherine Montenegro, Universidad Andrés Bello, Chile
Benjamin Montet, The University of Chicago
Marcelo Mora, Pontificia Universidad Católica de Chile
Katie Morzinski, The University of Arizona
Cristobal Moya, Universidad Católica de Valparaíso, Chile
Przemek Mroz, University of Warsaw, Poland
Nahir Muñoz, University of California, Santa Cruz
Burcin Mutlu, The University of Arizona
Rohan Naidu, Harvard University, Department of Astronomy
Matt Nichols, Harvard University, Department of Astronomy
Christian Nitschelm, University of Antofagasta, Chile
Allison Noble, Massachusetts Institute of Technology
Anna Ogrady, University of Toronto, Canada
Edward Olszewski, The University of Arizona
Gustavo Orellana, Universidad de Valparaíso, Chile
Andrew Pace, Texas A&M University
Tali Palma, Universidad Andrés Bello, Chile
Blake Pantoja, Universidad de Chile
Dan Patnaude, Smithsonian Astrophysical Observatory
Karla Peña, University of Antofagasta, Chile
Victoria Perez, Universidad de Chile
Ismael Pessa, Pontificia Universidad Católica de Chile
Kristin Peterson, Mount Holyoke College
Bogumil Pilecki, Universidad de Concepción, Chile
Pedro Poblete, Universidad Católica de Valparaíso, Chile
Grzegorz Pojmanski, University of Warsaw, Poland
Radoslaw Poleski, University of Warsaw, Poland
Elizabeth Post, Mount Holyoke College
Jose Prieto, Universidad Diego Portales, Chile
Zhijie Qu, University of Michigan
Jonathan Quirola, Harvard University, Department of Astronomy
Markus Rabus, Pontificia Universidad Católica de Chile
Srinivasan Raghunathan, The University of Melbourne, Australia
Kaitlin Rasmussen, University of Notre Dame
Alessandro Razza, Universidad de Chile
Chang H. Ree, Korea Astronomy and Space Science Institute
Megan Reiter, University of Michigan
Juan Remolina, University of Michigan
Guillermo Retamales, Universidad de La Serena, Chile
From October 1, 2017
To July 31, 2017
From November 1, 2017, formerly Hale Scholar/Staff Associate
To September 30, 2017
From October 2, 2017 to March 31, 2018
To August 31, 2017, formerly Hubble Fellow
From September 1, 2017
From August 16, 2017
From July 1, 2017
To November 26, 2017
From May 10, 2016 to September 30, 2017, not reported previously
To April 30, 2018
To September 24, 2017
From August 1, 2017
From May 10, 2016 to September 30, 2017, not reported previously
To April 30, 2018
To September 24, 2017
From August 1, 2017
From May 10, 2016 to September 30, 2017, not reported previously
To April 30, 2018
To September 24, 2017
From August 1, 2017
From May 10, 2016 to September 30, 2017, not reported previously
To April 30, 2018
To September 24, 2017
From August 1, 2017
From May 1, 2018, formerly Carnegie-Origins Fellow, November 30, 2017
[interdepartment transfer from OBS to DTM; Carnegie-Princeton Fellow, September 1, 2016
To August 31, 2017
To August 31, 2017
From January 1, 2018, formerly at Las Companas Observatory
From January 23, 2018
From March 5, 2018, formerly El Pino Guard
From June 1, 2018
To March 21, 2018
To December 31, 2017
To October 20, 2017
From November 14, 2017
To May 31, 2017
From February 13, 2018
From May 5, 2018
From June 20, 2017, not reported previously
From July 30, 2017
Personnel 2017-2018
July 1, 2017 to June 30, 2018

Department of Plant Biology

Research Staff Members
M. Kathryn Barton
Winslow R. Briggs, Director Emeritus
José Dinneny
David Ehrhardt
Arthur R. Grossman
Seung Y. Rhee
Zhi-Yong Wang, Acting Director

Adjunct Staff
Devaki Bhaya
Matthew Evans

Senior Investigator
Theodore Raab

Visiting Investigators
Yan Cai, Changzhou University (from 9/11/17)
Niko Geldner, Université de Lausanne, Switzerland (from 9/5/17 to 1/31/18)
Devin O’Connor, Cambridge University, UK (from 6/7/17)
Hatem Rouached, Institute National de la Recherche Agronomique, France
Xuelian Yang, Fujian Agriculture & Forestry University, China (from 5/1/18)

Graduate Students
Yang Bi, Stanford University
Yanniv Dorone, Stanford University
Therese LaRue, Stanford University

Postdoctoral Fellows and Associates
Kanako Bessho-Uehara, Postdoctoral Research Associate (from 4/2/18)
Flavia Bossi, Carnegie Fellow
Jennifer Brophy, HHMI Postdoctoral Research Associate
Arvind Chavali, NIH/DOE Postdoctoral Research Associate (to 3/9/18)
Antony Chettoor, NSF Postdoctoral Research Associate (from 8/30/17)
Lily Cheung, NSF Fellow (to 7/31/17)
Sophie Clowez, Moore Postdoctoral Research Associate
Cindy Cooke, NSF Postdoctoral Research Associate (to 12/31/17)
Cesar Cuevas-Velazquez, HHMI Postdoctoral Research Associate
Lina Duan – DOE Postdoctoral Research Associate (to 5/4/18)
Veder Garcia, NSF Postdoctoral Research Associate
Samuel Hokin, NSF Postdoctoral Research Associate
Yu-chun Hsiao, Carnegie Fellow
Chuan-Chih Hsu, Postdoctoral Research Associate (from 6/25/18)
Weichao Huang, Fellow (from 11/21/17)
Adam Idoine, BARD Fellow (to 10/31/17)
Haojie Jin, NSF Postdoctoral Research Associate
Robert Jinkerson, LSRF Fellow (to 7/31/17)
Rajnish Khanna, Carnegie Fellow
Tae-Wuk Kim, Postdoctoral Research Associate (from 2/20/18)
Fan Lin, Postdoctoral Research Associate (from 9/5/17)
Jelmer Lindeboom, Carnegie Fellow
Tie Liu, Carnegie Fellow
Yongxian Lu, Postdoctoral Research Associate
Heather Meyer, Carnegie Fellow
Chan-Ho Park, Carnegie Fellow
Neil Robbins, Fellow
Emanuel Sanz Luque, Carnegie Fellow (to 1/14/18)
Shai Saroussi, DOE Senior Postdoctoral Research Associate
Pascal Schlapfer, SNSF Fellow (to 12/31/17)
Jose Sebastian, DOE Postdoctoral Research Associate (to 11/21/17)
Davide Sosso, Syngenta Senior Postdoctoral Research Associate (to 9/10/17)
Tong-Seung Tseng, NSF Postdoctoral Research Associate
Frej Tulin, Fellow (from 9/1/17)
Tamara Vellosillo-Armengol, Postdoctoral Researcher
Josep Vilarrasa-Blasi, LSRF Fellow
Renate Weizbauer, Carnegie Fellow
Jiun Yen, Postdoctoral Research Associate (from 10/2/17)
TingTing Xiang, Moore Postdoctoral Research Associate
Zhengzhen Zhang, Fellow (from 10/16/17)
Kangmei Zhao, NIH Postdoctoral Research Associate
Jiaying Zhu, NIH Postdoctoral Research Associate

Interns / Volunteers
Ankush Bharadwaj, Intern
Sofia Bustamante, Intern
Erika Frydrych-Capelari, Intern
Rachel Gates, Intern
Miley Hu, Intern
Kevin Li, Intern
Bharti Parihar, Intern
Elijah Saltzman, Intern
Galyna Vakulenko, Intern
Febe Martinez, Intern
Matthew Webb, Intern

Supporting Staff
Lance Cabalona, Greenhouse Manager
Maria Canfield, Accounts Payable Specialist
Heather Cartwright, Core Imaging Director
Jessie Chen, Assistant Business Manager/Controller
Diane Chermak, Senior Laboratory Technician
Susan Cortinas, Grants Administrator
Amber Glowacki, Research Technician (to 6/14/18)
Ngoc Ho, Grants Manager
Garret Huntress, IS Manager
Benjamin Jin, Laboratory Assistant (from 11/1/17)
EvanaLee, Financial Analyst
Maria Lopez, IT Support Specialist
Makenzie Machado, Laboratory Technician
Giancarlo Materassi-Shultz, Gardener & Greenhouse Associate (from 1/16/18)
Hye-In Nam, Laboratory Technician
Kacie Ring, Laboratory Assistant (from 1/8/18)
Ankit Srinivas, Laboratory Assistant
Katherine Stevenson, Administrative Assistant (from 8/1/17)
Terri Tippets, Executive Administrator
M. Clare Tuma, Human Resources Business Partner (from 5/16/18)
Hannah Vahldick, Technician (from 6/26/18)
Theodore van de Sande, Operations Manager
Anjelica Vazquez, Maintenance Associate/Dishwasher
Ismael Villa, Facilities Assistant
Faatuai Williams, Accounts Payable Specialist
Naoia Williams, Accounts Payable Clerk/Purchasing Agent
Angela Xu, Research Assistant (from 6/4/18)
Shouling Xu, Director of Proteomics Facility
Bo Xue, Laboratory Technician
Peifen Zhang, Director of Plant Metabolic Network
Terrestrial Magnetism

Research Staff Members
Conel M. O’D. Alexander
Alan P. Boss
R. Paul Butler
Richard W. Carlson, Director
John E. Chambers
Peter E. Driscoll
John A. Graham, Emeritus
Erik H. Hauri
Hélène Le Mével
Alan T. Linde, Emeritus
Larry R. Nittler
Diana C. Roman
I. Selwyn Sacks, Emeritus
Scott S. Sheppard
Steven B. Shirey
Sean C. Solomon, Director Emeritus
Fouad Tera, Emeritus
Peter E. van Keken
Lara S. Wagner
Alycia J. Weinberger

Merle A. Tuve Senior Fellows
Michael R. Perfit, Distinguished Professor of Geology, Department of Geological Sciences, University of Florida, Gainesville
Morris Podolak, Professor of Planetary Sciences, Tel Aviv University
Albrecht W. Hofmann, Emeritus Director, Max Planck Institute for Chemistry; Adjunct Professor at Lamont-Doherty Earth Observatory and the University of Nanjing

Postdoctoral Fellows and Associates
Jessica Arnold, NASA Postdoctoral Associate
Tri Astraatmadja, Thompson Postdoctoral Fellow
Jaehan Bae, Rubin Fellow
Anaïs Bardyn, Postdoctoral Fellow
Sergio B. Dieterich, NSF Astronomy and Astrophysics Postdoctoral Fellow
Jessica K. Donaldson, Postdoctoral Associate
Jonathan Gagné, Sagan Fellow
Helen Janiszewski, Postdoctoral Fellow
Timothy D. Jones, Postdoctoral Fellow
Meredith A. MacGregor, NSF Postdoctoral Fellow
Kathleen F. McKee, NSF Postdoctoral Fellow
Miki Nakajima, *Postdoctoral Fellow*¹¹  
Erika Nesvold, *Postdoctoral Fellow*¹²  
Bradley Peters, *Postdoctoral Fellow*  
Jesse Reimink, *NSF Postdoctoral Associate*  
My Riebe, *NASA Postdoctoral Associate*  
Timothy J. Rodigas, *Postdoctoral Fellow; Hubble Fellow*¹³  
Kei Shimizu, *DCO Postdoctoral Associate*  
Shi (Joyce) Sim, *Postdoctoral Associate*¹⁴  
Nathan Sime, *Postdoctoral Fellow*¹⁵  
Johanna K. Teske, *Joint DTM/Carnegie Observatories Origins Fellow*¹⁶  
Jonathan Tucker, *DCO Postdoctoral Associate*  
Maximilien Verdier-Paoletti, *Postdoctoral Associate*¹⁷  
Sharon Wang, *Postdoctoral Fellow*  

**Visiting Students and Collaborators**  
Antonia Ashauer, Goethe University Frankfurt, Germany  
Mark Edwards, University of California, Santa Barbara  
Nick Ensi Liang, UC Santa Cruz/Nanjing University, China  
Cristobal Rodriguez, Universidad Católica Norte, Antofagasta, Chile  
Amélie Simon, University of Montreal  
Joshua Smith, Indiana University  
Hangyeol Yun, Seoul National University, Korea  

**Interns**  
Piper Resch, The Field School (August 2017)  
Aneesha Sampath, Thomas S. Wootton High School (summer 2018)  
Samantha O'Sullivan, School Without Walls Senior High School (summer 2018)  

**Supporting Staff**  
Michael J. Acierno, *IT/IS Manager/Systems Engineer*  
Maceo T. Bacote, *Building Engineer* ¹  
Gary A. Bors, *Facility Manager*  
Janice S. Dunlap, *Assistant to the Director*  
Pablo D. Esparza, *Maintenance Technician*  
Asaf O. Gelber, *Membership Manager, The Geochemical Society*¹⁸  
Steven Golden, *Field Seismologist*  
Shaun J. Hardy, *Librarian*  
Mary F. Horan, *Geochemistry Laboratory Manager*  
Kevin Johnson, *Chief Operating Officer, The Geochemical Society*  
William E. Key, *Building Engineer*  
Wan K. Kim, *Assistant Controller*  
Adriana Kuehnel, *IT Specialist & Scientific Programmer*¹⁹  
Casey Leffue, *Seminar and Events Coordinator*²⁰  
Otto Medina, *Building Engineer and Maintenance Apprentice*  
Quintin Miller, *Building Engineer*  

¹¹ Miki Nakajima  
¹² Erika Nesvold  
¹³ Timothy J. Rodigas  
¹⁴ Shi (Joyce) Sim  
¹⁵ Nathan Sime  
¹⁶ Johanna K. Teske  
¹⁷ Maximilien Verdier-Paoletti  
¹⁸ Steven Golden  
¹⁹ Adriana Kuehnel  
²⁰ Casey Leffue
Timothy D. Mock, Mass Spectrometry Laboratory Manager
Roberto Molar Candanosa, Science Writer & Communications Coordinator
Susana L. Mysen, Administrative Assistant
M.A. O’Donnell, The Geochemical Society Membership Coordinator
Daniela D. Power, Geophysical Research Assistant
Brian P. Schleigh, Electronic Design Engineer
Jianhua Wang, Senior Research Scientist and SIMS Lab Manager
Cian Wilson, Computational Scientist
Merri Wolf, Library Technical Assistant
Parvin Zahedivash, Staff Accountant

Visiting Investigators List
Guillem Anglada Escude, Queen Mary University
Pamela Arriagada, University of Washington
Marco Bagnardi, University of Leeds
Alex Canitano, Academia Sinica Taiwan
Dianhua Cao, Chinese Academy of Geological Sciences
Jemma Davidson, Arizona State University
Matías Diaz, University of Chile
Lynn Elkins, University of Nebraska
Jacqueline K. Faherty, American Museum of Natural History
Glenn Gaetani, Woods Hole Oceanographic Institution
Berry Holl, The Geneva Observatory at the University of Geneva
Dmitri Ionov, Université de Montpellier
James Jenkins, University of Chile
Hugh Jones, Hertfordshire University
Joel Kastner, Rochester Institute of Technology
David Mencin, UNAVCO, Boulder
Miki Nakajima, University of Rochester
Wendy Nelson, Towson University
Jonathan O’Neil, University of Ottawa
Morris Podolak, Tel Aviv University
Liping Qin, University of Science and Technology, China
Stephen H. Richardson, University of Cape Town
Hanika Rizo, Carleton University, Ottawa
Frederick Roelofse, University of the Free State, South Africa
Paul A. Rydelek, Memphis, TN
Alberto Saal, Brown University
Karen V. Smit, Gemological Institute of America
Evan Smith, Gemological Institute of America
Marc W. Spiegelman, Columbia University
Rhonda Stroud, Naval Research Laboratory
Kiyoshi Suyehiro, Japan Agency for Marine-Earth Science and Technology
Tetsuo Takanami, Earthquake Research Institute, University of Tokyo
Liyan Tian, *Sanya Institute of Deep-Sea Science and Engineering, Chinese Academy of Sciences*
Mikko Tuomi, *Hertfordshire University*
Tomohiro Usui, *Tokyo Institute of Technology*
Steve Vogt, *University of California, Santa Cruz, Lick Observatory*
Jessica M. Warren, *University of Delaware*
Shoshana Z. Weider, *NASA Headquarters***

1 From 3 October 2017 to 24 November 2017
2 From 1 January 2018 to 1 March 2018
3 From 15 May 2018 to 9 June 2018
4 From 7 September 2017
5 From 1 July 2017
6 To 16 October 2017
7 From 1 December 2017
8 From 27 March 2018
9 From 15 September 2017
10 From 12 December 2017
11 To 15 June 2018
12 To 3 November 2017
13 To 15 December 2017
14 From 2 April 2018
15 From 2 February 2018
16 To 1 May 2018 (now a Hubble Fellow at OBS)
17 From 25 January 2018
18 From 3 January 2018
19 From 2 October 2017
20 To 20 February 2018
21 From 7 August 2017
22 From 1 March 2018
23 To 31 January 2018
24 From 1 September 2017

*Joint DTM/GL employee
**Until June 20, 2018
***From June 20, 2018