

# Personnel listing as submitted by the departments of the Carnegie Institution for July 1, 2012 – June 30, 2013

## Embryology

### Research Staff Members

Alexsky Bortvin  
Donald D. Brown, *Director Emeritus*  
Chen-Ming Fan  
Steven Farber  
Joseph G. Gall  
Marnie Halpern  
Nicholas T. Ingolia  
Allan C. Spradling, *Director*  
Yixian Zheng

### Staff Associates

Jeffrey Han  
1 David MacPherson  
Christoph Lepper

### Postdoctoral Fellows and Associates

2 Sang Jung Ahn, *Research Associate (NIH Grant - Halpern)*  
Ivana Celic, *Research Specialist*  
Haiyang Chen, *Research Associate (NIH Grant – Zheng)*  
Tagide deCarvalho, *Research Fellow (NRSA Postdoctoral Fellowship)*  
3 Steven DeLuca, *Research Associate (HHMI-Spradling)*  
Svetlana Deryusheva, *Visiting Scientist, Carnegie*  
Erik Duboué, *Research Associate (NIH Grant – Halpern)*  
4 Rebecca Frederick, *Research Fellow (American Cancer Society Fellowship) 3*  
Megha Ghildiyal, *Research Fellow (Jane Coffin Childs Fellowship)*  
5 Daniel Gorelick, *Research Associate (NRSA Postdoctoral Fellowship)*  
6 Lakshmi Gorrepati, *Research Associate (NIH Grant – Lepper)*  
Ethan Greenblatt, *Research Associate (Howard Hughes Medical Institute – Spradling)*  
Elim Hong, *Research Associate (NIH Grant – Halpern)*  
Axel Horn, *Research Associate (NIH Grant – Han)*  
Troy Horn, *Carnegie Fellow*  
7 Mario Izaguirre-Sierra, *Carnegie Fellow*  
8 Shintaro Iwasaki, *Research Fellow (Japan Society Fellowship)*  
Junling Jia, *Research Associate (HHMI - Zheng) & Carnegie Fellow*  
Shiying Jin, *Research Associate (NIH Grant – Fan)*  
Youngjo Kim, *Research Associate (HHMI – Zheng & Ellison Medical Foundation – Zheng)*  
Ming-Chia Lee, *Research Associate (Howard Hughes Medical Institute - Spradling)*  
Lei Lei, *Research Associate (Howard Hughes Medical Institute - Spradling)*

Robert Levis, *Special Investigator, (NIH Grant - Spradling with Baylor College of Medicine, subcontract)*  
Zhonghua Liu, *Research Associate (HHMI - Zheng) & Carnegie Fellow*  
Vicki Losick, *Research Associate (HHMI - Spradling)*  
Siew Hui Low, *Research Associate (NIH Grant – Fan)*  
Safia Malki, *Carnegie Fellow*  
Oni Mapp, *Carnegie Fellow*  
9 Irena Martirosyan, *Research Associate (NIH Grant – Han)*  
10 Nicholas McGlincy, *Carnegie Fellow*  
11 Rosa Miyares, *Carnegie Fellow*  
12 Lucy Morris, *Research Associate (HHMI – Spradling)*  
Sheryl Murray, *Research Associate (NIH Grant – Lepper)*  
Zehra Nizami, *Carnegie Fellow*  
Jessica Otis, *Research Fellow (NRSA Postdoctoral Fellowship)*  
Jun Wei Pek, *Research Associate (NIH Grant – Gall)*  
Matthew Sieber, *Research Fellow (Jane Coffin Childs Fellowship)*  
Jianjun Sun, *Research Associate (Howard Hughes Medical Institute - Spradling)*  
13 Fred Tan, *Bioinformatics Research Faculty*  
14 Joseph Tran, *Carnegie Fellow*  
15 James Walters, *Research Fellow (NRSA Postdoctoral Fellowship)*  
Shusheng Wang, *Research Associate (NIH Grant - Zheng)*  
Micah Webster, *Research Associate (NIH Grant – Fan)*  
Zheng-an Wu, *Special Investigator (NIH Grant - Gall)*  
16 Helan Xiao, *Carnegie Fellow*  
Erin Zeituni, *Carnegie Collaborative Fellow*  
Xiaobin Zheng, *Research Associate (NIH Grant – Zheng)*

### **Predocctoral Fellows and Associates**

17 Diana Camerota, *The Johns Hopkins University*  
18 Juliana Carten, *The Johns Hopkins University*  
19 Julio Castañeda, *The Johns Hopkins University*  
20 Jui-Ko Chang, *The Johns Hopkins University*  
Valeriya Gaysinskaya, *The Johns Hopkins University*  
Pavol Genzor, *The Johns Hopkins University*  
Yuxuan Guo, *The Johns Hopkins University*  
Michael Harris, *The Johns Hopkins University*  
21 Tyler Harvey, *The Johns Hopkins University*  
22 Liangji Li, *The Johns Hopkins University*  
Lydia Li, *The Johns Hopkins University*  
23 Weiren Liu, *The Johns Hopkins University*  
24 Peter Lopez, *The Johns Hopkins University*  
Alexis Marianes, *The Johns Hopkins University*  
25 Vanessa Matos-Cruz, *The Johns Hopkins University*  
26 Katie McDole, *The Johns Hopkins University*  
Anna McGeachy, *The Johns Hopkins University*  
Eric Mills, *The Johns Hopkins University*

27 Rosa Miyares, *The Johns Hopkins University*  
Rebecca Obniski, *The Johns Hopkins University*  
Vanessa Quinlivan-Repasi, *The Johns Hopkins University*  
Sara Roberson, *The Johns Hopkins University*  
Michelle Rozo, *The Johns Hopkins University*  
Abhignya Subedi, *The Johns Hopkins University*  
Gaelle Talhouarne, *The Johns Hopkins University*  
Crystal Wall, *The Johns Hopkins University*  
Blake Weber, *The Johns Hopkins University*  
Jordan White, *The Johns Hopkins University*  
William Yarosh, *The Johns Hopkins University*  
28 Sibiao Yue, *The Johns Hopkins University*  
29 Yue Zheng, *The Johns Hopkins University*

### **Supporting Staff**

Arash Adeli, *Animal Technician*  
Jen Anderson, *Research Technician*  
30 Mary Best, *Business Manager*  
31 Keisha Breland, *Animal Technician*  
32 Lauren Burkowske, *Animal Technician*  
Valerie Butler, *Carnegie Science Outreach Coordinator*  
Blake Caldwell, *Research Technician*  
Patricia Cammon, *Howard Hughes Medical Institute Laboratory Helper*  
Dolly Chin, *Administrative Assistant*  
Steven Ching, *Research Technician*  
33 Karina Conkrite, *Research Technician*  
34 Min Cui, *Research Specialist*  
35 Karena Curtis, *BioEyes Volunteer*  
Carol Davenport, *Howard Hughes Medical Institute Research Technician III*  
Eugenia Dikovskaia, *Animal Facility Manager*  
Chun Dong, *Research Scientist*  
36 Olivia Farrelly, *Summer Student*  
37 Eugene Gardner, *Research Technician*  
Chandra Harvey, *Carnegie Science Outreach Coordinator*  
38 Brittany Hay, *Animal Technician*  
39 Roger Henry, *Student Assistant*  
40 Amy Herbert, *Student Volunteer*  
Lynne Hugendubler, *Research Technician*  
Alice Hung, *Summer Student*  
41 Joseph-Kevin Igwe, *Summer Student*  
Ella Jackson, *Howard Hughes Medical Institute Laboratory Helper*  
Connie Jewell, *Microcomputer Support Specialist*  
Glenese Johnson, *Laboratory Helper*  
Rejeanne Juste, *Research Technician*  
Aaron Katrikh, *Summer Student*

42 Susan Kern, *Business Manager*  
Gennadiy Klimachev, *Animal Technician*  
43 Lindsey Knapp, *Student Volunteer*  
44 Stephanie Kuo, *Research Technician*  
Bill Kupiec, *Information Systems Manager*  
45 David Lawrence, *Business Manager*  
Michelle Macurak, *Research Technician*  
Ona Martin, *Howard Hughes Medical Institute Research Technician III*  
Tom McDonough, *Facilities Manager*  
Marlow Minor, *Animal Technician*  
Estela Monge, *Research Technician*  
46 Gregory Moore, *Animal Technician*  
Pedram Nozari, *Animal Technician*  
Allison Pinder, *Howard Hughes Medical Institute Research Technician III*  
Earl Potts, *Animal Technician*  
Christine Pratt, *Howard Hughes Medical Institute Administrative Coordinator*  
47 Joan Pulupa, *Research Technician*  
Ana Quintanal, *Laboratory Assistant*  
48 Joshua Radebaugh, *Summer Student*  
49 Tula Raghaven, *Student Volunteer*  
Wilber Ramos, *Animal Technician*  
Oscar Reyes, *Summer Student*  
50 Andrew Rock, *Animal Technician*  
51 Michael Rongione, *Research Technician*  
52 Hemi Ryu, *Research Technician*  
Samantha Satchell, *Research Technician*  
53 Teddi Schott, *HR and Procurement Administrator*  
Michael Sepanski, *Electron Microscopy Technician*  
54 Mohammed Shamim, *Summer Student*  
Mahmud Siddiqi, *Microscope Specialist*  
55 C. Evan Siple, *Research Technician*  
Loretta Steffy, *Accounting Assistant*  
Allen Strause, *Machinist*  
56 Liyang Tang, *Research Technician*  
Robert Vary, *Carnegie Science Outreach Educator*  
Rafael Villagaray, *Macintosh Support Specialist*  
57 Simen Vlasov, *Animal Technician*  
Sean Watson, *Asst. Facility Manager*  
Dianne Williams, *Howard Hughes Medical Institute Research Technician III*  
58 Reid Woods, *Research Technician*

### **Visiting Investigators and Collaborators**

Hugo Bellen, *Baylor College of Medicine*

Robert Bittman, *Department of Chemistry and Biochemistry, Queens College of CUNY*

Rémy Bordonné, *Institut de Génétique Moléculaire de Montpellier (IGMM), Université Montpellier, Montpellier, France*

Vitor Bortolo de Rezende, *Universidade Federal de Minas Gerais, Brazil*

Christoph Cremer, *Kirchhoff Institute for Physics (KIP), University of Heidelberg, Germany*

Steven Ekker, *Department of Genetics, Cell Biology, and Development, University of Minnesota Medical School*

Matthias Hammerschmidt, *Cologne University, Institute of Developmental Biology, Germany*

Samer Hattar, *Department of Biology, The Johns Hopkins University*

Roger Hoskins, *Lawrence Berkeley National Laboratory*

Hao Jiang, *Laboratory of Molecular Cell Biology and Center of Cell Signaling, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences*

Rainer Kaufmann, *Kirchhoff Institute for Physics (KIP), University of Heidelberg, Germany*

Steven Leach, *Department of Surgery, Division of Surgical Oncology, The Johns Hopkins University School of Medicine*

Li Ma, *Laboratory of Molecular Cell Biology and Center of Cell Signaling, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences*

Cecilia Moens, *Fred Hutchinson Cancer Research Center*

Karen Oogema, *European Molecular Biology Laboratory, Germany*

Michael Pack, *Department of Medicine, University of Pennsylvania*

Michael Parsons, *Departments of Surgery and Oncology, The Johns Hopkins University School of Medicine*

John Rawls, *Department of Cell and Molecular Physiology, University of North Carolina*

Gerald M. Rubin, *Howard Hughes Medical Institute, Janelia Farm Research Campus*

Oystein Saele, *Department of Biology, University of Bergen, Norway*

Didier Stainier, *University of California, San Francisco*

C. Conover Talbot, Jr., *Institute for Basic Biomedical Sciences, The Johns Hopkins University School of Medicine*

Bernard Thisse, *Department of Cell Biology and the Morphogenesis and Regenerative Medicine Institute, University of Virginia*

Christine Thisse, *Department of Cell Biology and the Morphogenesis and Regenerative Medicine Institute, University of Virginia*

Yihan Wan, *Laboratory of Molecular Cell Biology and Center of Cell Signaling, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences*

Jing-Ruey Joanna Yeh, *Cardiovascular Research Center, Mass General Hospital Harvard Medical School*

Junqi Zhang, *Microbiology Department, Shanghai Medical College Fudan University*

Anying Zhang, *School of Life Science and Technology, University of Electronic Science and Technology of China, Chengdu, China*

1 To July 6, 2012  
2 To August 21, 2012  
3 From March 1, 2013  
4 To August 15, 2012  
5 To August 31, 2012  
6 From January 28, 2013  
7 To November 15, 2012  
8 From April 8, 2013  
9 To June 30, 2013  
10 From June 1, 2013  
11 From September 20, 2012  
12 To December 17, 2012  
13 From September 1, 2012  
14 From May 1, 2013  
15 To January 1, 2013  
16 To March 29, 2013  
17 To June 30, 2013  
18 To June 30, 2013  
19 To June 30, 2013  
20 From May 23, 2013  
21 From May 23, 2013  
22 From May 23, 2013  
23 From May 23, 2013  
24 To June 26, 2013  
25 To October 29, 2012  
26 To March 15, 2013  
27 To September 19, 2012  
28 From May 23, 2013  
29 To February 13, 2013  
30 From May 28, 2013  
31 To July 13, 2012  
32 To August 14, 2012  
33 To July 17, 2012  
34 To July 17, 2012  
35 To September 30, 2012  
36 From June 25, 2013  
37 To August 15, 2012  
38 To April 18, 2013  
39 To June 26, 2012  
40 To June 26, 2012  
41 To August 15, 2012  
42 To September 30, 2012  
43 To June 26, 2012  
44 From September 5, 2012  
45 From October 8, 2012 to April 3, 2013  
46 From October 5, 2012

47 To August 20, 2012  
48 To August 20, 2012  
49 To July 18, 2012  
50 From April 25, 2013  
51 To July 6, 2012  
52 To May 23, 2013  
53 From December 1, 2012  
54 To February 13, 2013  
55 To June 27, 2013  
56 To August 3, 2012  
57 From August 5, 2013  
58 To March 29, 2013

Photo legend: front to back, left to right

Row 1: Allan Spradling, Yixian Zheng, Joseph Gall, Marnie Halpern, Alex Bortvin, Steve Farber, Chen-Ming Fan, Fred Tan

Row 2: Antara Ghosh, Ella Jackson, Rejeanne Juste, Zehra Nizami, Lynne Hugendubler, Pat Cammpn, Ankita Das, Glenese Johnson, Wilber Ramos

Row 3: Jen Anderson, Zhonghua Liu, Jui-Ko Chang, Ming-Chia Lee, Allison Pinder, Lakshmi Gorrepati, Stephanie Kuo, Megha Ghildiyal

Row 4: Gaelle Talhourne, Sveta Deryusheva, Mike Harris, Weiren Liu, Nick McGlincy, Christine Simbolon, Micah Webster, Kiara Eldred, Joseph Tran, Marlow Minor, Lei Lei

Row 5: Abi Subhedhi, Will Yarosh, Steven Ching, Vanessa Quinlivan-Repasi, Jess Otis, James Thierer, Arash Adeli, Elim Hong, Tagide deCarvalho, Ethan Greenblatt

Row 6: Michelle Rozo, Xiaobin Zheng?, Mike Sepanski, Yuxuan Guo, Shiyang Jin, Andrew Levitt, Rebecca Obniski, Dianne Williams, Erik Duboue, Michael Thomsen

Row 7: Gennadiy Klimachev, Bob Levis, Carol Davenport, Vicki Losick, Erin Zeituni, Sheryl Murray, Yihan Wan, Steve DeLuca

Row 8: Mary Best, Lydia Li, Youngjo Kim, Simen Vlasov, Eugenia Dikovskaia, Tyler Harvey, Matt Sieber, Pavol Genzor, Safia Malki, Mahmud Siddiqi, Rosa Alcazar, Allen Strause

Row 9: Pedram Nozari, Troy Horn, Gregory Moore, Bill Kupiec, Tom McDonough, Dolly Chin





## **Geophysical Laboratory**

### **Staff Scientists**

George D. Cody  
Ronald E. Cohen  
Yingwei Fei  
Marilyn L. Fogel<sup>1</sup>  
Alexander F. Goncharov  
Robert M. Hazen  
Russell J. Hemley, *Director*  
Wesley T. Huntress, Jr., *Director Emeritus*  
T. Neil Irvine, *Emeritus*  
Ho-kwang Mao  
Bjørn O. Mysen  
Douglas Rumble III  
Anat Shahar  
Andrew Steele  
Timothy A. Strobel  
Viktor V. Struzhkin

### **Senior Scientist**

Reinhard Boehler, *EFree*

### **Cecil and Ida Green Senior Fellow**

Alexandra Navrotsky

### **Senior Visiting Investigators**

Charles T. Prewitt, *University of Arizona*  
Dimitri A. Sverjensky, *The Johns Hopkins University*  
Takamitsu Yamanaka, *Osaka University, Japan*

### **Research Scientists**

Muhetaer Aihaiti, *CDAC, NSF, DOE*  
Nabil Z. Boctor, *NASA Astrobiology Institute (NAI)*  
Xiao-Jia Chen, *EFree*  
Dionysis I. Foustoukos, *NSF, DCO*  
Mihaela Glamoclija, *AMASE, NASA*  
Malcolm Guthrie, *EFree*  
Kadek Hemawan, *CDAC, WDLP<sup>2</sup>*  
Valerie Hillgren, *NASA, NSF, DARPA, CDAC, EFree*  
Qi Liang, *CVD Diamond*  
Yufei Meng, *CVD Diamond, CDAC<sup>3</sup>*  
Ivan Naumov, *ONR, EFree*  
Karyn Rogers, *NASA*  
Craig Schiffries, *Director, DCO*  
Jinfu Shu, *HPCAT, Carnegie*  
Maddury Somayazulu, *CDAC, DOE*  
Chih-Shiue Yan, *CVD Diamond, CDAC, Carnegie*  
Chang-Sheng Zha, *CDAC*

Li Zhang, *NSF*

**DOE Program/Departmental Outreach Coordinator**  
Stephen A. Gramsch, *CDAC, EFree, Carnegie*

**High Pressure Collaborative Access Team (HPCAT), High Pressure Synergetic Center (HPSynC) at the Advanced Photon Source (APS), Argonne National Laboratory, Chicago, IL; National Synchrotron Light Source (NSLS) at Brookhaven National Laboratory, Upton, NY; Spallation Neutron Source (SNS) at Oak Ridge National Laboratory, Oak Ridge, TN**

Maria Baldini, *Research Scientist, HPSynC*

Genevieve Boman, *Beamline Associate, HPCAT*

Arunkumar S. Bommannavar, *Beamline Control Scientist, HPCAT*

Xuliang Chen, *Predoctoral Associate, HPSynC<sup>4</sup>*

Paul Chow, *Beamline Scientist, HPCAT*

Cindy Doran, *Administrative Assistant, HPSynC*

Richard Ferry, *Technician, HPSynC*

Freda Humble, *Project Administrator, HPCAT<sup>5</sup>*

Daijo Ikuta, *Beamline Associate, HPCAT*

Curtis Kenney-Benson, *Beamline Associate, HPCAT*

Lingping Kong, *Predoctoral Associate, HPSynC<sup>6</sup>*

Yoshio Kono, *Research Scientist, HPCAT*

Katherine Lazarz, *Summer Intern, HPCAT<sup>7</sup>*

Bing Li, *Postdoctoral Associate, HPSynC<sup>8</sup>*

Kuo Li, *Postdoctoral Associate, SNS*

Xiyu Li, *Summer Intern, HPCAT<sup>9</sup>*

Zhenxian Liu, *Beamline Scientist, NSLS*

Chunli Ma, *Predoctoral Associate, NSLS<sup>10</sup>*

Shinichi Machida, *Postdoctoral Associate, SNS<sup>11</sup>*

Ho-kwang Mao, *Executive Director, HPCAT*

Yue Meng, *Beamline Scientist, HPCAT*

Veronica O'Connor, *Office Manager, HPCAT<sup>12</sup>*

Changyong Park, *Beamline Scientist, HPCAT*

Dmitry Popov, *Beamline Scientist, HPCAT*

Eric Rod, *Beamline Technician, HPCAT*

Guoyin Shen, *Director, HPCAT*

Sean Shieh, *Visiting Investigator, HPSynC*

Stanislav Sinogeikin, *Beamline Scientist, HPCAT*

Jesse Smith, *Postdoctoral Associate, HPCAT*

Erik Wang, *Summer Intern, HPCAT<sup>13</sup>*

Junyue Wang, *Postdoctoral Associate, HPSynC*

Lin Wang, *Research Scientist, HPSynC*

Luhong Wang, *Visiting Investigator, HPSynC*

Yuming Xiao, *Beamline Scientist, HPCAT*

Hongping Yan, *DCO Postdoctoral Fellow, HPCAT<sup>14</sup>*

Wenge Yang, *Director, HPSynC*

Jian-Bo Zhang, *Predoctoral Associate, HPSynC<sup>15</sup>*

Zhisheng Zhao, *Postdoctoral Associate, HPCAT<sup>16</sup>*

Kirill Zhuravlev, *Beamline Scientist, GSECARS, APS<sup>17</sup>*

### **Postdoctoral Fellows and Postdoctoral Associates**

Hilary Christensen, *Carnegie Fellow*<sup>18</sup>  
Célia Dalou, *Carnegie Fellow*  
Liwei Deng, *Carnegie Fellow*<sup>19</sup>  
Cécile Feuillie, *Postdoctoral Associate, NSF*<sup>20</sup>  
Matthieu Galvez, *Carnegie Fellow*<sup>21</sup>  
Christopher Glein, *Carnegie Fellow*<sup>22</sup>  
Yoko Kebukawa, *JSPS-GL Fellow*<sup>23</sup>  
Duck Young Kim, *Carnegie Fellow*  
Karunakar Kothapalli, *Postdoctoral Associate, EFree*<sup>24</sup>  
Oleksandr Kurakevych, *Postdoctoral Associate, DARPA*<sup>25</sup>  
George Lazar, *Carnegie Fellow*<sup>26</sup>  
Xiaoming Liu, *Carnegie Fellow*<sup>27</sup>  
Subhasish Mandal, *Postdoctoral Associate, EFree*<sup>28</sup>  
Sami Mikhail, *Carnegie Fellow*  
Caitlin Murphy, *Carnegie Fellow*<sup>29</sup>  
Takaki Muramatsu, *Postdoctoral Associate, DOE*  
Shohei Ohara, *JSPS Fellow*  
Ileana Pérez-Rodríguez, *Carnegie Fellow*  
Robert Potter, *Postdoctoral Associate, DOE*<sup>30</sup>  
Manuvesh Sangwan, *Postdoctoral Associate, EFree*<sup>31</sup>  
Yuki Shibazaki, *JSPS Fellow*  
Sandra Siljestroem, *Carnegie Fellow*<sup>32</sup>  
Vincenzo Stagno, *Postdoctoral Associate, EFree*  
Elissaios Stavrou, *Postdoctoral Associate, DARPA*<sup>33</sup>  
Steve Stefanoski, *Postdoctoral Associate, DARPA*<sup>34</sup>  
Xiaojing Tan, *Postdoctoral Associate, EFree*<sup>35</sup>  
Adrián Villegas-Jiménez, *Carnegie Fellow*  
Liuxiang Yang, *Postdoctoral Associate, EFree*  
Chi Zhang, *Carnegie Fellow*<sup>36</sup>

### **Predocctoral Fellows and Predocctoral Associates**

Charlene Estrada, *Predocctoral Fellow, NSF*  
Tingting Gu, *Predocctoral Associate, China Scholarship Council*<sup>37</sup>  
Qingyang Hu, *Predocctoral Associate, NSF*<sup>38</sup>  
Amol Karandikar, *Predocctoral Associate, EFree*  
Namhey Lee, *Predocctoral Fellow, The Johns Hopkins University*<sup>39</sup>  
Derek Smith, *Predocctoral Fellow, Dartmouth College*  
Verena Starke, *AMASE, NASA*<sup>40</sup>  
Yonghui Zhou, *Predocctoral Associate, EFree*<sup>41</sup>

### **College Interns**

Salima Bahri, *Research Assistant, Columbia University*<sup>42</sup>  
Ryan Boles, *University of Nevada, Reno*<sup>43</sup>  
Juliana Mesa Garcia, *Universidad EAFIT, Colombia*<sup>44</sup>  
Thomas Gramsch, *Radford University*<sup>45</sup>  
  
Jihua Hao, *Johns Hopkins University*<sup>46</sup>  
Fang Huang, *Johns Hopkins University*<sup>47</sup>  
John Nance, *University of Maryland, College Park*<sup>48</sup>

Maimon Rose, *University of Chicago*<sup>49</sup>  
Simla Sahin, *Rutgers University*<sup>50</sup>  
Angela Schad, *University of Delaware*<sup>51</sup>

**Summer Scholar Interns (Summer 2013) – Note: that these are not REU Interns**

Marques Hatfield, *George Mason University*  
Matthew Rawls, *George Mason University*

**High School Interns**

Emily Bertot, *Northwood High School*<sup>52</sup>  
Jackson Holaday, *Walt Whitman High School*<sup>53</sup>  
Robert Martin, *Montgomery Blair High School*<sup>54</sup>  
Thomas McHale, *Montgomery Blair High School*<sup>55</sup>  
Elena Polozova, *Montgomery Blair High School*<sup>56</sup>

**Support Staff**

Danielle J.-H. Appleby, *Assistant to the Director, Departmental and Institutional Affairs*  
Alia Awadallah, *DCO Program Assistant*<sup>57</sup>  
John Armstrong, *Microbeam Specialist*  
Maceo T. Bacote, *Building Engineer*<sup>58</sup>  
Gary A. Bors, *Building Engineer*<sup>59</sup>  
Roxane Bowden, *Lab Manager, Stable Isotope Facility*  
Stephen D. Coley, Sr., *Instrument Shop Supervisor*  
Katherine Crispin, *Microbeam Specialist*<sup>60</sup>  
Lauren Cryan, *DCO Program Associate*<sup>61</sup>  
Roy R. Dingus, *Facility Manager*<sup>62</sup>  
Pablo D. Esparza, *Maintenance Technician*<sup>63</sup>  
Dyanne Furtado, *Staff Accountant*  
Paul Goldey, *Electronics/Microbeam Specialist*  
Christos G. Hadidiacos, *Electronics Engineer*  
Shaun J. Hardy, *Librarian*<sup>64</sup>  
Stephen Hodge, *Instrument Maker*  
Garret W. Huntress, *Systems Administrator, Systems Developer*<sup>65</sup>  
William E. Key, *Building Engineer*<sup>66</sup>  
Szczeny (Felix) Krasnicki, *CVD Diamond Senior Engineer*  
Joseph Lai, *CVD Diamond Lab Manager*  
Jeff Lightfield, *Controller*  
Victor Lugo, *Instrument Maker*  
Andrea Mangum, *DCO Program Manager*  
Quintin Miller, *Building Engineer Apprentice*<sup>67</sup>  
Susana Mysen, *EFree Project Administrator*  
Trong T. Nguyen, *Assistant Controller*  
Morgan D. Phillips, *Assistant to the Director, Science and CDAC*  
Gefei Qian, *Systems Administrator*  
Pedro J. Roa, *Maintenance Technician*<sup>68</sup>  
Michelle Scholtes, *Web/Departmental Assistant*<sup>69</sup>  
Haiyun (Kevin) Shu, *CVD Diamond Technician*  
Helen Venzon, *Accounts Payable Specialist*  
Merri Wolf, *Library Technical Assistant*<sup>70</sup>  
Thomas Yu, *CVD Diamond Technician*<sup>71</sup>

### **Visiting Investigators (Washington, DC)**

David M. Baker, *Smithsonian Institution*  
Devin Barrett, *American University*  
Dina Bower, *Tidewater Community College*  
Uzi Breier, *Washington Diamonds Corporation*  
Razvan Caracas, *Université de Lyon, École Normale Supérieure de Lyon, France*  
Artem Chanychev, *V.S. Sobolev Institute of Geology & Mineralogy, Russia*  
Claire Cousins, *Birbeck College, U.K.*  
Scott Elliott, *Washington Diamonds Limited Partnership*  
Thomas Fitzgibbons, *Pennsylvania State University*  
Marc Fries, *NASA JPL*  
Lev Gasparov, *University of North Florida*  
Alexander Gavriiliuk, *Institute of Crystallography, Russia*  
Wojciech Grochala, *University of Warsaw, Poland*  
Neal Sanchayan Gupta, *Bryant University*  
Jian Han, *Case Western University*  
Matt Hastings, *American University*  
Philip Hemmer, *Texas A&M University*  
Shigeto Hitai, *Stanford University*  
Jennifer Houghton, *Washington University in St. Louis*  
Haijun Huang, *Wuhan University of Technology, PR China*  
Piet Hut, *Institute for Advanced Study*  
Daniel Hummer, *University of California, Los Angeles*  
Sergey Ivanov, *Uppsala University, Sweden*  
Timothy Jenkins, *U.S. Army Research Laboratory*  
Cheng Ji, *Institute of Crystallography, Russia*  
Svetlana Kharlamova, *Unaffiliated*  
Eun Jeong Kim, *Seoul National University, Korea*  
Kateryna Klochko, *Unaffiliated*  
Anton Kolesnikov, *The Russian State University of Oil and Gas*  
Chad Lane, *University of North Carolina-Wilmington*  
Peter Lazor, *Uppsala University, Sweden*  
Monty Liong, *American University*  
Jiachao Liu, *University of Michigan*  
Konstantin Lokshin, *University of Tennessee*  
Xuan Luo, *The National Graphene Research and Development Center, LLC*  
Manik Mandal, *Lehigh University*  
Francis McCubbin, *University of New Mexico*  
Liam McGuinness, *Texas A&M University*  
Stewart McWilliams, *Universidad de los Andes, Colombia*  
Michelle Minitti, *Arizona State University*  
Jamie Molaison, *Oak Ridge National Laboratory*  
Davide Novella, *Bayerisches Geoinstitut, Germany*  
Aaron Palke, *Stanford University*  
Dominic Papineau, *Boston College*  
Camille Petit, *American University*  
Kirk Post, *University of California, San Diego*  
Dean Presnall, *The University of Texas at Dallas*  
Daniel Reaman, *The University of Chicago*  
Sergey Starchikov, *Institute of Crystallography, Russia*  
Sergei Stishov, *Institute for High Pressure Physics, Russia*

Dimo Stoev, *Washington Diamonds Limited Partnership*  
Shumilo Tatyana, *Institute of Geology, ?*  
Sylvia-Monique Thomas, *University of Nevada, Las Vegas*  
Noah Timmons, *University of North Florida*  
Yarden Tsach, *Washington Diamonds Corporation*  
James van Orman, *Case Western University*  
Olga Vlasova, *Institute for High Pressure Physics, Russia*  
Dongqing Wai, *Shanghai Jiaotong University, PR China*  
Shibing Wang, *Stanford University*  
Jonathan Wynn, *University of South Florida*  
Hikaru Yabuta, *Osaka University, Japan*  
Todd Zapata, *Texas A&M University*  
Wei Zhou, *Institute of Solid State Physics, PR China*

**Visiting Investigators (Geophysical  
Laboratory Synchrotron Facilities)**

Kimberly Adams, *Northwestern University, NSLS*  
Jared Allred, *Argonne National Laboratory, HPCAT*  
G. Amulele, *Yale University, NSLS*  
Zhinan An, *University of Tennessee, HPCAT*  
Daniel Antonio, *University of Nevada, Las Vegas, HPCAT*  
Matthew Armentrout, *University of California, Los Angeles, HPCAT*  
Ligang Bai, *University of Nevada, Las Vegas, HPCAT*  
Jason Baker, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Nirup Bandaru, *University of Nevada, Las Vegas, HPCAT*  
Rozaliya Barabash, *Oak Ridge National Laboratory, HPCAT*  
Eric Bauer, *Los Alamos National Laboratory, HPCAT*  
Mai Huong Bausch, *University of Nevada, Las Vegas, HPCAT*  
Gustav Borstad, *Washington State University, HPCAT*  
S. Botis, *University of Michigan, NSLS*  
Eglantine Boulard, *Stanford University, HPCAT, NSLS*  
Patrick Bowden, *Los Alamos National Laboratory, HPCAT, NSLS*  
Jodie Bradby, *The Australian National University at Canberra, HPCAT*  
T. Brinzari, *University of Tennessee, NSLS*  
Andy Campbell, *University of Chicago, HPCAT*  
Krystle Catalli, *Lawrence Livermore National Laboratory, HPCAT*  
Yunyuan Chang, *Northwestern University, HPCAT*  
Hong Young Chang, *Washington State University, HPCAT*  
Raja Chellappa, *Los Alamos National Laboratory, HPCAT, NSLS*  
Bin Chen, *University of Michigan, HPCAT*  
Jihua Chen, *Florida International University, NSLS*  
Jing-Yin Chen, *Lawrence Livermore National Laboratory, HPCAT*  
Zhiqiang Chen, *High Pressure Science and Technology Advanced Research, PR China, HPCAT*  
Bin H. Chen, *High Pressure Science and Technology Advanced Research, PR China, HPCAT*  
X. Cheng, *Zhengzhou University of Light Industry, PR China, NSLS*  
Bethany Chidester, *University of Chicago, HPCAT*  
Omar Chmaissem, *Argonne National Laboratory, NIU, HPCAT*  
Benjamin Cochain, *University of Edinburgh, U.K., HPCAT*  
Anthony Connolly, *University of Nevada, Las Vegas, HPCAT*  
Q. Cui, *Jilin University, PR China, NSLS*  
Alex Cusick, *University of Michigan, HPCAT*

Hyunchae Cynn, *Lawrence Livermore National Laboratory, HPCAT*  
Dana Dattelbaum, *Los Alamos National Laboratory, HPCAT, NSLS*  
Charlotte de Grouchy, *University of Edinburgh, U.K., HPCAT*  
Vincent DeGeorge, *Carnegie Mellon University, HPCAT*  
Przemyslaw Dera, *University of Chicago, HPCAT*  
Marina Diaz Michelena, *Instituto Nacional de Tecnología Aeroespacial, HPCAT*  
Yang Ding, *Argonne National Laboratory, HPCAT*  
Susannah Dorfman, *Ecole Polytechnique Fédérale de Lausanne, France, HPCAT*  
Ricardo Reis, *Brazilian Synchrotron Light Laboratory, HPCAT*  
Zbigniew Dreger, *Washington State University, HPCAT*  
James Drewitt, *University of Edinburgh, U.K., HPCAT*  
Vadym Drozd, *Florida International University, HPCAT*  
Thomas Duffy, *Princeton University, HPCAT*  
Ilias Efthymiopoulos, *Oakland University, HPCAT*  
Fedor Elkin, *Institute for High Pressure Physics, RAS, HPCAT*  
William Evans, *Lawrence Livermore National Laboratory, HPCAT*  
Gilberto Fabbris, *Washington University, St. Louis, HPCAT*  
H. Feng, *Montclair State University, NSLS*  
Meina Feng, *Jilin University, PR China, HPCAT, NSLS*  
Shaomin Feng, *Chinese Academy of Science, HPCAT*  
Gregory Finkelstein, *Princeton University, HPCAT*  
Rebecca Fischer, *University of Chicago, HPCAT*  
Thomas Fitzgibbons, *Pennsylvania State University, HPCAT*  
Mark Frank, *Northern Illinois University, HPCAT*  
Asami Furukawa, *Japan Atomic Energy Agency, HPCAT*  
M. Galley, *University of Nevada, NSLS*  
P. Gao, *New Jersey Institute of Technology, NSLS*  
Yang Gao, *Texas Tech University, HPCAT*  
Alexander Gavriluk, *Institute for High Pressure Physics, Russian Academy of Sciences, HPCAT*  
Jennifer Girard, *Florida International University, NSLS*  
Konstantin Glazyrin, *Yale University, HPCAT*  
Arianna Gleason, *Stanford University, HPCAT*  
Brent Grocholski, *Smithsonian National Museum of Natural History, NSLS*  
Griffin Guardala, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Bianca Haberl, *The Australian National University at Canberra, HPCAT*  
Itzhak Halevy, *Nuclear Research Center Negev, Israel, HPCAT*  
Sara Haravifard, *Advanced Photon Source/University of Chicago, HPCAT*  
Daniel Haskel, *Argonne National Laboratory, HPCAT*  
E. Hausrath, *University of Nevada, Las Vegas, NSLS*  
Julong He, *Yanshan University, HPCAT*  
Dion Heinz, *University of Chicago, HPCAT*  
Christopher Holl, *Princeton University, HPCAT*  
John Howard, *University of Nevada, Las Vegas, HPCAT*  
Rostislav Hrubyak, *Florida International University, HPCAT*  
Wen-Pin Hsieh, *Stanford University, HPCAT*  
Meng Hu, *Yanshan University, HPCAT*

Y. Hu, *University of Western Ontario, NSLS*  
F. Huang, *Jilin University, NSLS*  
S. Huang, *Florida International University, NSLS*  
Quan Huang, *Yanshan University, HPCAT*



X. Huang, *Jilin University, NSLS*  
Daniel Hummer, *University of California, Los Angeles, HPCAT*  
Junhyuck Im, *Yonsei University, HPCAT*  
Valentin Iota-Herbei, *University of Nevada, Las Vegas, HPCAT*  
Steven Jacobsen, *Northwestern University, HPCAT*  
Jason Jeffries, *Lawrence Livermore National Laboratory, HPCAT*  
Zsolt Jenei, *Lawrence Livermore National Laboratory, HPCAT*  
Donald Jenket, *University of Maryland, HPCAT*  
Jennifer C. Jenkins, *Army Research Laboratory, NSLS*  
Timothy Jenkins, *U.S. Army Research Laboratory, HPCAT*  
Cheng Ji, *Argonne National Laboratory, HPSynC*  
Pamela Kaercher, *University of California, Berkeley, HPCAT*  
Patricia Kalita, *University of Nevada, Las Vegas, HPCAT*  
Abby Kavner, *University of California, Los Angeles, HPCAT*  
Rand Kelly, *University of Nevada, Las Vegas, HPCAT*  
Salavat Khasanov, *Institute of Solid State Physics, RAS, HPCAT*  
Eun Jeong Kim, *Seoul National University, Korea, HPCAT*  
Jae-Hyun Klepeis, *Lawrence Livermore National Laboratory, HPCAT*  
Lingping Kong, *Harbin Institute of Technology, HPCAT*  
Karunakar Kothapalli, *University of Nevada, Las Vegas, HPCAT*  
Ravhi Kumar, *University of Nevada, Las Vegas, HPCAT*  
Luo Kun, *Yanshan University, HPCAT*  
Maik Lang, *University of Michigan, HPCAT, NSLS*  
Barbara Lavina, *University of Nevada, Las Vegas, HPCAT*  
John Lazarz, *Northwestern University, HPCAT*  
Alex Leary, *Carnegie Mellon University, HPCAT*  
Kanani Lee, *Montana State University, Bozeman, HPCAT*  
Yongjae Lee, *Yonsei University, HPCAT, NSLS*  
Yongmoon Lee, *Florida International University, HPCAT, NSLS*  
Seona Lee, *Yonsei University, HPCAT*  
Quanjun Li, *Jilin University, PR China, HPCAT, NSLS*  
Chunyu Li, *Harbin Institute of Technology, PR China, HPCAT*  
Quan Li, *University of Nevada, Las Vegas, HPCAT*  
Zeyu Li, *University of Michigan, HPCAT*  
Renfeng Li, *Harbin Institute of Technology, PR China, HPCAT*  
Liangliang Li, *Harbin Institute of Technology, PR China, HPCAT*  
Gong Li, *University of Tennessee, HPCAT*  
Jinhyuk Lim, *Washington University in St. Louis, HPCAT*  
Yu Lin, *Stanford University, HPCAT*  
Jung-Fu Lin, *University of Texas at Austin, HPCAT*  
Kristina Lipinska, *University of Nevada, Las Vegas, HPCAT*  
Magnus Lipp, *Lawrence Livermore National Laboratory, HPCAT*  
B. Liu, *Jilin University, NSLS*  
D. Liu, *Jilin University, NSLS*  
D. Liu, *Yonsei University, NSLS*  
Gang Liu, *Pennsylvania State University, HPCAT*  
Jiachao Liu, *University of Michigan, HPCAT*  
Jing Liu, *Chinese Academy of Science, HPCAT*  
Lei Liu, *Argonne National Laboratory, HPSynC*  
Ran Liu, *Jilin University, HPCAT, NSLS*  
Xiaobing Liu, *Northwestern University, HPCAT*

Yu Liu, *University of Nevada, Las Vegas, HPCAT, NSLS*  
Thomas Lochbiler, *Oakland University, HPCAT*  
Xujie Lu, *University of Nevada, Las Vegas, HPCAT*  
Matthew Lucas, *Air Force Research Laboratory, HPCAT*  
C. Ma, *Jilin University, NSLS*  
N. Mack, *Los Alamos National Laboratory, NSLS*  
Simon Macleod, *Atomic Weapons Establishment, U.K., HPCAT*  
V. Manner, *Los Alamos National Laboratory, NSLS*  
Craig Manning, *University of California, Los Angeles, HPCAT*  
Zhu Mao, *University of Science and Technology of China, HPCAT*  
Jose Mardegan, *University of Campinas, HPCAT*  
Daniel Mast, *University of Nevada, Las Vegas, HPCAT*  
Brian Mattern, *University of Washington, HPCAT*  
Lisa Mauger, *California Institute of Technology, HPCAT*  
Carlos Mayolo, *Advanced Photon Source, HPCAT*  
Chinua McDonald, *University of Nevada, Las Vegas, HPCAT*  
Lowell Miyagi, *Montana State University, Bozeman, HPCAT*  
Vahe Mkrtchyan, *University of Nevada, Las Vegas, HPCAT*  
Jeffrey Montgomery, *University of Alabama at Birmingham, HPCAT*  
Devon Mortensen, *University of Washington, HPCAT*  
Jorge Munoz, *California Institute of Technology, HPCAT*  
J. Musfeldt, *University of Tennessee, NSLS*  
S. Najiba, *Florida International University, NSLS*  
Farzana Nasreen, *University of Nevada, Las Vegas, HPCAT*  
Carole Nisr, *Arizona State University, HPCAT*  
Meilan Oi, *Wuhan University of Technology, HPCAT*  
K. O'Neal, *University of Tennessee, NSLS*  
Raymond Osborn, *Argonne National Laboratory, HPCAT*  
K. Otsuka, *Yale University, NSLS*  
Sarah Palaich, *University of California, Los Angeles, HPCAT*  
Wendy Panero, *Ohio State University, NSLS*  
Sulgiye Park, *University of Michigan, HPCAT*  
Yufei Peng, *Argonne National Laboratory, HPSynC*  
Jeffrey Pigott, *The Ohio State University, HPCAT, NSLS*  
Michael Pravica, *University of Nevada, Las Vegas, HPCAT, NSLS*  
Selva Vennila Raju, *University of Nevada, Las Vegas, HPCAT*  
Mary Reagan, *Stanford University, HPCAT*  
Daniel Reaman, *University of Chicago, HPCAT*  
F. Rein, *Los Alamos National Laboratory, NSLS*  
John Robinson, *University of Nevada, Las Vegas, HPCAT*  
Anton Romanenko, *GSI Darmstadt, HPCAT*  
Nathaniel Rondeau, *University of Nevada, Las Vegas, HPCAT*  
Stephan Rosenkranz, *Argonne National Laboratory, HPCAT*  
S. Rotsom, *University of Tennessee, NSLS*  
Costel Rotundu, *University of California, Los Angeles, HPCAT*  
Ramon Saavedra, *Los Alamos National Laboratory, HPCAT*  
Chrysteal Sanloup, *University of Edinburgh, U.K., HPCAT*  
Henry Scott, *Indiana University, South Bend, HPCAT*  
Donghoon Seoung, *Florida International University, NSLS*  
Yingxia Shi, *Stanford University, HPCAT*  
Sang-Heon Shim, *Arizona State University, HPCAT*

Yu Shu, *Yanshan University, HPCAT*  
Adam Simon, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Quinlan Smith, *University of Nevada, Las Vegas, HPCAT*  
Spencer Smith, *University of Alabama at Birmingham, HPCAT*  
Daniel Sneed, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Yang Song, *University of Western Ontario, HPCAT, NSLS*  
Narcizo Souza Neto, *Brazilian Synchrotron Light Laboratory, HPCAT*  
Holly Spice, *University of Edinburgh, U.K., HPCAT*  
Camelia Stan, *Princeton University, HPCAT*  
Sergey Starchikov, *Institute for Nuclear Research, Russian Academy of Sciences, HPCAT*  
E. Stevenson, *Smithsonian National Museum of Natural History, NSLS*  
Yongzhou Sun, *Florida International University, HPCAT, NSLS*  
Elizabeth Tanis, *University of Nevada, Las Vegas, HPCAT*  
Dane Tomasino, *Washington State University, HPCAT*  
Joshua Townsend, *Northwestern University, HPCAT, NSLS*  
Cameron Tracy, *University of Michigan, HPCAT*  
Sally June Tracy, *California Institute of Technology, HPCAT*  
Oliver Tschauner, *University of Nevada, Las Vegas, HPCAT*  
John Tse, *University of Saskatchewan, NSLS*  
Georgiy Tsoy, *Center for Nanoscale Materials and Biointegration, HPCAT*  
T. Tyson, *New Jersey Institute of Technology, NSLS*  
Walter Uhoya, *Center for Nanoscale Materials and Biointegration, HPCAT*  
C. Unterborn, *Ohio State University, NSLS*  
Maria Valdes, *Washington University in St. Louis, HPCAT*  
Nichole Valdez, *Colorado College, HPCAT*  
Derrick VanGennep, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Nenad Velisavljevic, *Los Alamos National Laboratory, HPCAT*  
Shibing Wang, *Stanford University, HPCAT*  
Yuejian Wang, *Oakland University, HPCAT*  
Shanmin Wang, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Liping Wang, *High Pressure Science and Engineering Center, UNLV, HPCAT*  
Samuel Weir, *Lawrence Livermore National Laboratory, HPCAT*  
Tsu-Chien Weng, *SLAC National Accelerator Laboratory, HPCAT*  
Rudy Wenk, *University of California at Berkeley, HPCAT*  
Melanie White, *University of Nevada, Las Vegas, HPCAT*  
Junjie Wu, *University of Texas at Austin, HPCAT*  
Xiang Wu, *Peking University, PR China, HPCAT*  
Fan Yang, *Stanford University, HPCAT*  
Ke Yang, *Argonne National Laboratory, HPSynC*  
Jing Yang, *The University of Texas at Austin, HPCAT*  
Yu Ye, *Arizona State University, HPCAT*  
Choong-shik Yoo, *Washington State University, HPCAT*  
Zhenhai Yu, *Harbin Institute of Technology, PR China, HPCAT*  
Tony Yu, *University of Chicago, GSECARS, HPCAT*  
Dongli Yu, *Yanshan University, HPCAT*  
Cun Yu, *Northern Illinois University, HPCAT*  
Saebom Yu, *Seoul National University, Korea, HPCAT*  
Qiaoshi Zeng, *Stanford University, HPCAT*  
Zhidan Zeng, *Stanford University, HPCAT*  
Eloisa Zepeda-Alarcon, *University of California, Berkeley, HPCAT*  
Fuxiang Zhang, *University of Michigan, HPCAT*

Jian-Bo Zhang, *Argonne National Laboratory, HPSynC*  
Qian Zhang, *Arizona State University, HPCAT*  
Zhao Zhao, *Stanford University, HPCAT*  
Ankang Zhao, *Western University, HPCAT*  
Haiyan Zheng, *Beijing National Laboratory for Molecular Sciences, PR China, HPCAT*  
Liang Zhou, *Western University, HPCAT*  
Dan Zhou, *University of Nevada, Las Vegas, HPCAT*  
Jinlong Zhu, *Los Alamos National Laboratory, HPCAT*  
Jun Zhu, *Argonne National Laboratory, HPSynC*  
Jie Zhu, *University of Texas at Austin, HPCAT*  
Igor Zibrov, *Institute for High Pressure Physics, RAS, HPCAT*

---

<sup>1</sup>To December 31, 2012. *Adjunct Senior Staff Scientist* from January 1, 2013

<sup>2</sup>From July 1, 2012

<sup>3</sup>From July 1, 2012

<sup>4</sup>From September 17, 2012

<sup>5</sup>From January 18, 2013

<sup>6</sup>To October 14, 2012

<sup>7</sup>From July 9, 2012 to August 30, 2012

<sup>8</sup>To December 21, 2012

<sup>9</sup>From June 10, 2013

<sup>10</sup>To April 30, 2013

<sup>11</sup>To June 29, 2013

<sup>12</sup>To December 31, 2012

<sup>13</sup>From September 4, 2012 to September 30, 2012

<sup>14</sup>From August 6, 2012

<sup>15</sup>From September 17, 2012

<sup>16</sup>From September 19, 2012 to May 31, 2013; *Carnegie Fellow* from June 1, 2013

<sup>17</sup>To May 15, 2013

<sup>18</sup>From September 6, 2012

<sup>19</sup>To August 31, 2012

<sup>20</sup>From October 8, 2012

<sup>21</sup>From September 21, 2012

<sup>22</sup>From August 1, 2012

<sup>23</sup>To April 15, 2013

<sup>24</sup>From June 17, 2013

<sup>25</sup>To January 18, 2013

<sup>26</sup>To December 31, 2012

<sup>27</sup>From January 2, 2013

<sup>28</sup>From July 23, 2012

<sup>29</sup>From September 4, 2012

<sup>30</sup>To July 31, 2012

<sup>31</sup>From April 18, 2013

<sup>32</sup>From September 4, 2012

<sup>33</sup>From November 1, 2012 to March 25, 2013

<sup>34</sup>From March 4, 2013 to June 30, 2012; *Carnegie Fellow* from July 1, 2013

<sup>35</sup>From December 3, 2012

<sup>36</sup>To December 21, 2012

<sup>37</sup>To December 21, 2012

<sup>38</sup>From October 22, 2012

- 
- <sup>39</sup>To December 31, 2012
- <sup>40</sup>To October 31, 2012; *Postdoctoral Associate* from November 1, 2012
- <sup>41</sup>From September 18, 2012
- <sup>42</sup>From May 20, 2013 to June 30, 2013
- <sup>43</sup>From June 10, 2013
- <sup>44</sup>To July 15, 2012
- <sup>45</sup>From July 9, 2012 to September 20, 2012
- <sup>46</sup>From May 21, 2013
- <sup>47</sup>From May 21, 2013
- <sup>48</sup>From August 1, 2012 to August 31, 2012
- <sup>49</sup>To July 13, 2012; From December 17, 2012 to January 4, 2013
- <sup>50</sup>From May 16, 2013
- <sup>51</sup>Joint appointment with DTM; From June 3, 2013
- <sup>52</sup>From August 20, 2012
- <sup>53</sup>From June 24, 2013
- <sup>54</sup>From June 17, 2013
- <sup>55</sup>To August 26, 2012
- <sup>56</sup>To ? 2012
- <sup>57</sup>From January 7, 2013
- <sup>58</sup>Joint appointment with DTM
- <sup>59</sup>Joint appointment with DTM
- <sup>60</sup>From July 1, 2012
- <sup>61</sup>To January 15, 2013; Returned for a brief period from February 28, 2013 to March 15, 2013
- <sup>62</sup>Joint appointment with DTM
- <sup>63</sup>Joint appointment with DTM
- <sup>64</sup>Joint appointment with DTM
- <sup>65</sup>To January 8, 2013
- <sup>66</sup>Joint appointment with DTM
- <sup>67</sup>Joint appointment with DTM
- <sup>68</sup>Joint appointment with DTM; To August 31, 2012
- <sup>69</sup>From July 9, 2012
- <sup>70</sup>Joint appointment with DTM
- <sup>71</sup>To September 28, 2012

## **Global Ecology**

### **Research Staff Members**

Gregory Asner  
Joseph A. Berry  
Kenneth Caldeira  
Christopher B. Field, *Director*  
Anna Michalak

### **Postdoctoral Fellows and Associates**

Claire Baldeck, *Research Associate, Andrew Mellon Foundation*  
Paulo Brando, *Research Associate, NSF*<sup>1</sup>  
Monalisa Chatterjee, *Research Associate, USGCRP, Grantham Foundation for the Protection of the Environment*  
Mathew Colgan, *Research Associate, Andrew Mellon Foundation*<sup>2</sup>  
Ari Kornfeld, *Research Associate, Carnegie Institution*<sup>3</sup>  
Ivana Cvijanovic, *Research Associate, Fund for Innovative Climate and Energy Research*<sup>4</sup>  
Steven Davis, *Research Associate, Fund for Innovative Climate and Energy Research*<sup>5</sup>  
Yuanyuan Fang, *Research Associate, NASA, DOE*<sup>6</sup>  
Jean-Baptiste Feret, *Research Associate, MacArthur Foundation*  
Mark Higgins, *Research Fellow, Carnegie Institution*  
Ben Kravitz, *Research Associate, Fund for Innovative Climate and Energy Research*<sup>7</sup>  
Scott Loarie, *Research Associate, World Bank*  
Jana Maclaren, *Research Associate, Fund for Innovative Climate and Energy Research*<sup>8</sup>  
Robin Martin, *Research Associate, MacArthur Foundation*  
Joseph Mascaro, *Research Associate, Carnegie Institution, Andrew Mellon Foundation*  
Katharine Ricke, *Research Associate, Fund for Innovative Climate and Energy Research*<sup>9</sup>  
*Research Fellow, Carnegie Institution*<sup>10</sup>  
Kenneth Schneider, *Research Associate, Moore Foundation*<sup>11</sup>  
Jovan Tadic, *Research Associate, NASA*<sup>12</sup>  
Vineet Yadav, *Research Associate, NSF, NASA, DOE*  
Yuntao Zhou, *Research Associate, NSF*<sup>13</sup>

### **Predocctoral Fellows and Associates**

Bill Anderegg, *Stanford University*<sup>14</sup>  
Eben Broadbent, *Stanford University*<sup>15</sup>  
Dario Caro, *Stanford University*<sup>16</sup>  
K. Dana Chadwick, *Stanford University*  
Abhishek Chatterjee, *Stanford University*<sup>11</sup>  
Kyla Dahlin, *Stanford University*<sup>15</sup>  
Luis Fernandez, *Stanford University*  
Rebecca Hernandez, *Stanford University*  
Jeff Ho, *Stanford University*<sup>17</sup>  
Jennifer Johnson, *Stanford University*

Kelly McManus, *Stanford University*  
Marina Oster, *Stanford University*  
Yoichi Shiga, *Stanford University*  
Eva Sinha, *Stanford University*<sup>18</sup>  
Aaron Strong, *Stanford University*

### **Visiting Investigators**

Eric Kissel, *Intergovernmental Panel on Climate Change*  
Katherine Mach, *Intergovernmental Panel on Climate Change*  
Michael Mastrandrea, *Intergovernmental Panel on Climate Change*  
Emily Solly, *Max Planck Institute for Biogeochemistry*<sup>19</sup>  
Leslie White, *Intergovernmental Panel on Climate Change*<sup>20</sup>  
Shouren Zhang, *Chinese Academy of Sciences*<sup>12</sup>  
Jakob Zscheischler, *Max Planck Institute for Biogeochemistry*<sup>19</sup>

### **Supporting Staff**

Makulomy Alexander-Hills, *Intern*<sup>19</sup>  
Christopher Anderson, *Laboratory Technician*  
Catherine Ashe, *Laboratory Technician*  
Abby Bethke, *Operations Specialist*<sup>20</sup>  
Eren Bilir, *Research Assistant*  
Morgan Brunelle, *Intern*<sup>22</sup>  
Lilian Caldeira, *Research Intern*<sup>23</sup>  
Loreli Carranza-Jimenez, *Assistant Program Manager*<sup>24</sup>  
Nona Chiariello, *Senior Research Associate*  
John Clark, *Program Coordinator*<sup>25</sup>  
Michael Dini, *Laboratory Technician*  
Shane Easter, *Laboratory Technician*<sup>26</sup>  
Yuka Estrada, *Web & Graphics Specialist*  
Robert Genova, *Researcher and Systems Administrator*<sup>27</sup>  
Beti Girma, *Intern*<sup>20</sup>  
Andrea Grimbergen, *Intern*<sup>28</sup>  
Robert Kempainen, *Intern*<sup>10</sup>  
Tera Johnson, *Intern*<sup>29</sup>  
Rosy Karna, *Intern*<sup>30</sup>  
Ty Kennedy-Bowdoin, *Senior Laboratory Technician*  
David Knapp, *Senior Laboratory Technician*  
Katherine Kryston, *Laboratory Technician*  
Alexander Lebron, *Intern*<sup>22</sup>  
Catherine Lemmi, *Intern*<sup>31</sup>  
Andrew Levy, *Intern*<sup>22</sup>  
Linda Longoria, *Administrative Assistant*<sup>32</sup>  
Andrea Martinez, *Intern*<sup>33</sup>  
Patricia Mastrandrea, *Project Assistant*<sup>7</sup>  
Stephanie May, *Laboratory Assistant*  
Rosemary Mena-Werth, *Intern*<sup>19</sup>

Ana Miller-ter Kuile, *Intern*<sup>22</sup>  
Eric Miyashiro, *Intern*<sup>10</sup>  
Catie Mong, *Intern*<sup>19</sup>  
Sharyn Nantuna, *Administrative Assistant*<sup>19</sup>  
Marion O’Leary, *Senior Advancement Consultant*  
Danielle Olivera, *Research Assistant*<sup>34</sup>  
Paola Perez, *Visiting Intern*<sup>35</sup>  
Xuemei Qiu, *Programmer*<sup>36</sup>  
Jessica Reilly, *Program Intern*  
Tefiro Serunjogi, *Intern*<sup>29</sup>  
Eric Slessarev, *Intern*<sup>32</sup>  
Michael Sojka, *Undergraduate Research Assistant*<sup>19</sup>  
Sinan Sousan, *Staff Computer Programmer*<sup>37</sup>  
Ian Sparkman, *Intern*  
Elif Tasar, *Laboratory Technician*<sup>38</sup>  
Morvarid Tavassoli, *Intern*<sup>39</sup>  
Todd Tobeck, *Laboratory Manager*  
Wilson Torres, *Undergraduate Research Assistant*<sup>19</sup>  
Byron Tsang, *Laboratory Manager*<sup>40</sup>  
Natalie Vande Pol, *Intern*<sup>41</sup>  
Miriam Vargas, *Intern*<sup>42</sup>  
Kylie West, *Intern*<sup>43</sup>  
Kara Yeung, *Intern*<sup>44</sup>

<sup>1</sup> From January 14, 2013

<sup>2</sup> From July 1, 2012 to June 30, 2013

<sup>3</sup> From October 1, 2012

<sup>4</sup> From April 23, 2013

<sup>5</sup> To September 30, 2012

<sup>6</sup> From August 1, 2012

<sup>7</sup> To August 31, 2012

<sup>8</sup> From October 8, 2012

<sup>9</sup> To March 31, 2013

<sup>10</sup> From April 1, 2013

<sup>11</sup> To December 31, 2012

<sup>12</sup> From March 1, 2013

<sup>13</sup> From February 1, 2013

<sup>14</sup> To June 15, 2013

<sup>15</sup> To July 1, 2012

<sup>16</sup> From November 1, 2012 to April 14, 2013

<sup>17</sup> From July 1, 2012

<sup>18</sup> From June 15, 2013

<sup>19</sup> From June 17, 2013

<sup>20</sup> From June 24, 2013

<sup>21</sup> From February 25, 2013

<sup>22</sup> From April 15, 2013

<sup>23</sup> From December 12, 2012

<sup>24</sup> To November 30, 2012

<sup>25</sup> To September 14, 2012

<sup>26</sup> To October 5, 2012



- <sup>27</sup> To January 4, 2013
- <sup>28</sup> To July 27, 2012
- <sup>29</sup> From June 25, 2013
- <sup>30</sup> From April 15, 2013 to June 18, 2013
- <sup>31</sup> From June 18, 2013
- <sup>32</sup> To June 30, 2013
- <sup>33</sup> From April 23, 2013 to June 15, 2013
- <sup>34</sup> From May 1, 2013
- <sup>35</sup> From July 1, 2012 to December 31, 2012
- <sup>36</sup> From February 11, 2013
- <sup>37</sup> From July 24, 2012
- <sup>38</sup> From November 5, 2012
- <sup>39</sup> From January 28 to June 21, 2013
- <sup>40</sup> From January 7, 2013
- <sup>41</sup> From July 16 to August 31, 2012
- <sup>42</sup> From May 16, 2013
- <sup>43</sup> From October 8, 2012 to March 31, 2013
- <sup>44</sup> From October 5, 2012

## YB12-13OBSPersonnel – Manual Endnotes

### The Observatories

#### Research Staff Members

Andrew Benson  
Alan Dressler  
Wendy Freedman, *Director*  
Luis Ho  
Juna Kollmeier  
Patrick McCarthy  
Andrew McWilliam  
John Mulchaey  
Augustus Oemler, Jr., *Director Emeritus*  
Eric Persson  
George Preston, *Director Emeritus*  
Michael Rauch  
François Schweizer  
Stephen Sackett  
Joshua Simon  
Ian Thompson  
Ray Weymann, *Director Emeritus*

#### Research Associates

Dan Kelson, *Staff Associate*  
Barry Madore, *Senior Research Associate*

#### Technical Staff Members

Alan Uomoto, *Magellan Technical Manager*

#### Postdoctoral Fellows and Associates

Joshua Adams, *Postdoctoral Associate*  
Guillermo Blanc, *Carnegie Fellow*  
Christopher Burns, *Research Associate*  
Richard Cool, *Carnegie-Princeton Fellow*<sup>1</sup>  
Thomas J. Cox, *Carnegie Fellow*<sup>2</sup>  
Jeffrey Crane, *Staff Associate*  
Michele Fumagalli, *Hubble-Carnegie-Princeton Fellow*<sup>3</sup>  
Nimish Hathi, *Postdoctoral Associate*  
Song Huang, *Research Assistant*<sup>2</sup>  
Ning Jaing, *Research Assistant*<sup>4</sup>  
Mansi Kasliwal, *Hubble-Carnegie-Princeton Fellow*  
Minjin Kim, *KASI-Carnegie Fellow*<sup>5</sup>  
Andy Monson, *Postdoctoral Associate*  
Eric Murphy, *Postdoctoral Associate*<sup>6</sup>

Ryan Quadri, *Hubble Fellow*  
Jeffery Rich, *Postdoctoral Associate*<sup>3</sup>  
Ian Roederer, *Carnegie Fellow*  
Victoria Scowcroft, *Postdoctoral Associate*  
Mark Seibert, *Senior Research Analyst*<sup>7</sup>  
Yue Shen, *Hubble Fellow*<sup>8</sup>  
Jaejin Shin, *Research Assistant*<sup>9</sup>  
Rik Williams, *Postdoctoral Associate*

### **Las Campanas Research Staff**

Mark Phillips, *Associate Director, Las Campanas Observatory and Magellan Telescopes*  
Miguel Roth, *Director, Las Campanas Observatory*

### **Las Campanas Fellows and Associates**

Carlos Contreras, *Postdoctoral Fellow*<sup>10</sup>  
Gaston Folatelli, *Postdoctoral Fellow*  
Eric Hsiao, *Postdoctoral Fellow*

### **Las Campanas Visiting Investigator**

Nidia Morrell, *Visiting Scientist*

### **Support Scientist**

David Murphy, *Instrument Scientist*<sup>11</sup>

### **Supporting Staff, Pasadena**

Alan Bagish, *Las Campanas Observatory Engineer*  
Christoph Birk, *Data Acquisition Programmer*  
Jerson Castillo, *Instrument Maker*  
Paul Collison, *Computer Systems Manager*  
Jorge Estrada, *Electronics Technician*  
John Grula, *Head Librarian, Information Services/Publications Manager*  
Tyson Hare, *Mechanical Engineer*  
Earl Harris, *Shipping and Receiving Specialist*  
Silvia Hutchison, *Assistant to the Director*<sup>2</sup>  
Sharon Kelly, *Senior Buyer*  
Vincent Kowal, *Machine Shop Foreperson/ Instrument Maker*  
Becky Lynn, *Secretary*  
Sonia Ochoa, *Purchasing Manager*<sup>12</sup>  
Luis Ochoa Ramirez, *Accounts Payable Specialist*  
Greg Ortiz, *Assistant, Buildings and Grounds*  
Vgee Ramiah, *Business Manager*  
Scott Rubel, *Associate Facilities Manager*  
Robert Storts, *Instrument Maker*  
Irina Strelnik, *Assistant Business Manager*  
Edward Villanueva, *Data Analyst and Programmer*  
Valerie Vlahovic, *Financial Accountant*<sup>13</sup>

Gregory Walth, *Data Analyst*<sup>14</sup>  
Steven K. Wilson, *Facilities Manager*

**Supporting Staff, Las Campanas**

Miriél Abarca, *Janitor*  
Carolina Alcayaga, *Purchasing Officer*  
Ricardo Alcayaga, *Mechanic*  
Juan Alfaro, *Magellan Site Maintenance Support*  
Hernán Angel, *Driver/Purchaser*  
Nicolas Angel, *El Pino Guard*<sup>15</sup>  
Jorge Araya, *Magellan Telescope Operator*  
Héctor Balbontín, *Chef*  
Ivan Barraza, *El Pino Guard*<sup>16</sup>  
Roberto Bermúdez, *Administrative Assistant*  
Yuri Beletsky, *Magellan Instrument Support Scientist*  
Andres Borquez, *Chef*  
Jorge Bravo, *Magellan Instrument Specialist*  
Abdo Campillay, *Research Assistant*  
Sergio Castellón, *Night Assistant*  
Juan-Carlos Carrasco, *Driver/Purchaser*  
Pedro Carrizo, *Plumber*  
Jilberto Carvajal, *El Pino Guard*  
Pablo Castro, *Telescope Controls Programmer*  
Emilio Cerda, *Magellan Electronics Engineer*  
Angel Cortés, *Accountant*  
Henry Cortés, *Electrician*<sup>17</sup>  
José Cortés, *Janitor*  
Oscar Duhalde, *Mechanical Technician*  
Julio Egaña, *Painter*<sup>18</sup>  
Juan Espoz, *Mechanic*  
Juan N. Espoz, *Electronics Engineer*  
Glenn Eychaner, *Telescope Systems Programmer*  
Francisco Figueroa, *Supervisor of Mountain Maintenance*  
Carlos Flanega, *Janitor*  
Juan Gallardo, *Mechanical Engineer*  
Manuel Gamboa, *Assistant Construction*  
Jaime Gómez, *Accounting Assistant*  
Danilo González, *El Pino Guard*  
Luis González, *Janitor*  
Sergio González, *Night Assistant*  
Erwin Guerra, *Carpenter*  
Javier Gutiérrez, *Mechanical Technician Assistant*  
Nelson Ibacache, *Mechanical Assistant*  
Patricio Jones, *Magellan Electronics Engineer*  
Oscar Juica, *Plumber*  
Marc Leroy, *Assistant Telescope Engineer*<sup>19</sup>

Gabriel Martin, *Magellan Instrument Specialist*  
Mauricio Martinez, *Magellan Telescope Operator*  
Miguel Méndez, *Mechanical Technician*  
Victor Meriño, *Magellan Instrument Specialist*  
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*  
David Osip, *Magellan Instrumentation Scientist*  
Povilas Palunas, *Telescope Scientist*  
Alberto Pastén, *Magellan Telescope Operator*<sup>20</sup>  
Frank Perez, *Site Manager/Telescope Engineer*  
Patricio Pinto, *Electronics Engineer*  
Gabriel Prieto, *Magellan Telescope Operator*  
Félix Quiroz, *Mechanical Technician*  
Andres Rivera, *Electronics Engineer*  
Hugo Rivera, *Magellan Telescope Operator*  
Javier Rivera, *Paramedic*  
Herman Rojas, *Web Page Specialist*  
Jorge Rojas, *Janitor*  
Mauricio Rojas, *Janitor*  
Felipe Sánchez, *Telescope Controls Operator*  
Joanna Thomas-Osip, *Site Test Scientist*<sup>1</sup>  
Manuel Traslaviña, *Heavy Equipment Operator*  
Geraldo Vallardes, *Magellan Telescope Operator*<sup>21</sup>  
Edgar Veléz, *Mechanic*<sup>22</sup>  
Sergio Veléz, *Supervisor of Mountain General Services*  
David Verdugo, *Chef*  
Jose Zambra, *Chef*

### **Visiting Investigators**

Alicia Aarnio, *University of Michigan*  
Roberto Abraham, *University of Toronto, Canada*  
Romina Ahumada, *Universidad de Concepción, Chile*  
Andres Almeida, *Universidad Andrés Bello, Chile*  
Joseph Anderson, *Universidad de Chile*  
Rodolfo Angeloni, *Pontificia Universidad Católica de Chile*  
Timo Anguita, *Pontificia Universidad Católica de Chile*  
Pamela Arriagada, *Pontificia Universidad Católica de Chile*  
Matthew Ashby, *Harvard University, CfA*  
Vanessa Bailey, *The University of Arizona*  
Gaspar Bakos, *Princeton University*  
Rodolfo Barba, *Universidad de La Serena, Chile*

Ivano Baronchelli, *University of Minnesota*  
Franz Bauer, *Pontificia Universidad Católica de Chile*  
Daniel Bayliss, *Australian National University*  
Matthew Bayliss, *Harvard University, CfA*  
Susan Benecchi, *Department of Terrestrial Magnetism*  
Christian Moni Bidin, *Universidad Católica del Norte, Chile*  
Ryan Blackman, *Northern Arizona University*  
Peter Blanchard, *Harvard University, CfA*  
Lindsey Bleem, *The University of Chicago*  
David Borncamp, *Southwest Research Institute*  
Ismael Botti, *University of Nottingham, United Kingdom*  
Antonin Bouchez, *Giant Magellan Telescope Organization*  
Rafael Brahm, *Pontificia Universidad Católica de Chile*  
Greg Bredthauer, *Semiconductor Technology Associates, Inc. / ESO*  
Cesar Briceño, *University of Michigan*  
Runa Briguglio, *The University of Arizona*  
Paul Butler, *Department of Terrestrial Magnetism*  
Sabrina Cales, *Universidad de Concepción, Chile*  
Abdo Campillay, *National Science Foundation*  
Tommaso Cardona, *University of Michigan*  
Joleen Carlberg, *Department of Terrestrial Magnetism*  
Rodrigo Carvajal, *Universidad de Chile*  
Andrew Casey, *Australian National University*  
Julio Chanamé, *Pontificia Universidad Católica de Chile*  
Hsiao-Wen Chen, *The University of Chicago*  
André Nicolas Chené, *Universidad de Valparaiso, Chile*  
Igor Chilingaryan, *Harvard University, CfA*  
Myung Cho, *National Optical Astronomical Observatory*  
Ryan Chornock, *Harvard University, CfA*  
Laird Close, *The University of Arizona*  
Maureen Conroy, *Harvard University, CfA*  
Carlos Contreras, *University of Hertfordshire, United Kingdom*  
Kathy Cooksey, *Massachusetts Institute of Technology*  
Thomas Cooper, *Massachusetts Institute of Technology*  
Derek Copon, *The University of Arizona*  
Fernando Cortes, *Universidad de Concepción, Chile*  
Andrea Corvillon, *Pontificia Universidad Católica de Chile*  
Bryce Croll, *Massachusetts Institute of Technology*  
Zoltan Csubry, *Princeton University*  
Jason Curtis, *Pennsylvania State University*  
Gary Da Costa, *Australian National University*  
Ivana Damjanov, *Harvard University, CfA*  
Elizabeth Wylie de Boer, *Australian National University*  
Thomas de Jaeger, *Universidad de Chile*  
Willem de Pous, *University of Leiden, Netherlands*  
Miguel de Val-Borro, *Princeton University*

Julien de Wit, *Massachusetts Institute of Technology*  
Nathalie Degenaar, *University of Michigan*  
Istvan Dekany, *Pontificia Universidad Católica de Chile*  
Ricardo Demarco, *Universidad de Concepción, Chile*  
Francesca Demeo, *Massachusetts Institute of Technology*  
Anna Demoed, *University of Leiden, Netherlands*  
Steve Desch, *Arizona State University*  
Jean-Michel Désert, *Harvard University, CfA*  
Stewart DeSoto, *Wheaton College*  
Matias Diaz, *Pontificia Universidad Católica de Chile*  
Claire Dickey, *Pomona College*  
Jasson Dittman, *Harvard University, CfA*  
Maria Drout, *Harvard University, CfA*  
Trent Dupuy, *Harvard University, CfA*  
Roger Eng, *Giant Magellan Telescope Organization*  
Nestor Espinoza, *Pontificia Universidad Católica de Chile*  
Simone Esposito, *The University of Arizona*  
Jacqueline Faherty, *Universidad de Chile*  
Ming Fang, *Purple Mountain Observatory, CAS, China*  
Anna Febrel, *Massachusetts Institute of Technology*  
Michael Florian, *The University of Chicago*  
Ryan Foley, *Harvard University, CfA*  
Katherine Follete, *The University of Arizona*  
Wen Fai Fong, *Harvard University, CfA*  
Francisco Forster, *Harvard University, CfA*  
Caroline Foster, *Australian Astronomical Observatory*  
Harold Francke, *Pontificia Universidad Católica de Chile*  
Cesar Fuentes, *Northern Arizona University*  
Sofia Gallego, *Pontificia Universidad Católica de Chile*  
Roberto Gamen, *Instituto de Astrofísica de La Plata, Argentina*  
Cristina Garcia, *Pontificia Universidad Católica de Chile*  
Jean-René Gauthier, *California Institute of Technology*  
Melissa Gillone, *University of Birmingham, United Kingdom*  
Mike Gladders, *The University of Chicago*  
Karl Glazebrook, *Swinburne University of Technology, Australia*  
Percy Gomez, *Gemini Observatory*  
Consuelo Gonzalez, *National Science Foundation*  
Jorge Gonzalez, *Pontificia Universidad Católica de Chile*  
Marek Gorski, *Universidad de Concepción, Chile*  
Dariusz Graczyk, *Universidad de Concepción, Chile*  
Jenny Greene, *Princeton University*  
Eric Grigel, *Giant Magellan Telescope Organization*  
Mariusz Gromadzki, *Universidad de Valparaiso, Chile*  
Puragra Guhathakurta, *University of California, Santa Cruz*  
Thomas Hayward, *Gemini Observatory*  
Karen Hamm, *Department of Terrestrial Magnetism*

Sang Il Han, *Yonsei University, Korea*  
Paul Harding, *Case Western Reserve University, United States*  
Annie Hedlund, *Pomona College*  
Krzysztof Helminiak, *Pontificia Universidad Católica de Chile*  
Jennifer Helsby, *The University of Chicago*  
Maren Hempel, *Pontificia Universidad Católica de Chile*  
Jesus Hernandez, *University of Michigan*  
Pascale Hibon, *Gemini Observatory*  
Phil Hinz, *The University of Arizona*  
Sergio Hoyer, *Harvard University, CfA*  
Jiasheng Huang, *Harvard University, CfA*  
Heather Jacobson, *Massachusetts Institute of Technology*  
Yara Jaffe, *Universidad de Concepción, Chile*  
Daniel Jaffe, *The University of Texas*  
Steven Janssens, *University of Toronto, Canada*  
Anne Jaskot, *University of Michigan*  
James Jenkins, *Universidad de Chile*  
Hyunjin Jeong, *Korea Astronomy and Space Science Institute*  
Saurabh Jha, *Rutgers, The State University of New Jersey*  
Sean Johnson, *The University of Chicago*  
Traci Johnson, *University of Michigan*  
Avril Day Jones, *Universidad de Chile*  
Andres Jordan, *Pontificia Universidad Católica de Chile, HAT South*  
Gandhali Joshi, *University of Waterloo, Canada*  
Yijung Kang, *Yonsei University, Korea*  
James Keane, *The University of Arizona*  
Stefan Keller, *Australian National University*  
Catherine Kennedy, *Australian National University*  
Ilya Khrykin, *Max-Planck-Institut Für Astronomie, Germany*  
Young-Soo Kim, *Korea Astronomy and Space Science Institute*  
Sam Kim, *Pontificia Universidad Católica de Chile*  
Young-Lo Kim, *Yonsei University, Korea*  
Gloria Koenigberger, *Universidad Nacional Autónoma, Mexico*  
Piotr Konorski, *Universidad de Concepción, Chile*  
Adam Kraus, *Harvard University, CfA*  
Kevin Krisciunas, *Texas A&M University*  
Radostin Kurtev, *Universidad de Valparaiso, Chile*  
Ivo Labbé, *University of Leiden, Netherlands*  
Susan Lederer, *NASA – Johnson Space Center*  
Joo Hyeop Lee, *Korea Astronomy and Space Science Institute*  
Roger Leiton, *Universidad de Concepción, Chile*  
Rebecca Levinson, *Massachusetts Institute of Technology*  
Jason Lewis, *The University of Arizona*  
Jia Liang, *The University of Chicago*  
Dongwook Lim, *Yonsei University, Korea*  
Huan Lin, *The University of Chicago*



Paulina Lira, *Universidad de Chile*  
Mercedes Lopez, *Department of Terrestrial Magnetism*  
Ariel Lopez, *Gemini Observatory*  
Laura Lopez, *Massachusetts Institute of Technology*  
Paula Lopez, *Universidad de Chile*  
Sebastian Lopez, *Universidad de Chile*  
Phillips Lucas, *University of Hertfordshire, United Kingdom*  
Ragnhild Lunnan, *Harvard University, CfA*  
Jared Males, *The University of Arizona*  
Sangeeta Malhotra, *Arizona State University*  
Matthew Malkan, *University of California, Los Angeles*  
Eric Manuel, *Giant Magellan Telescope Organization*  
Sebastian Marino, *Harvard University, CfA*  
Howie Marion, *Harvard University, CfA*  
Jorge Martinez, *Universidad de Chile*  
Philip Massey, *Lowell Observatory*  
Mario Mateo, *University of Michigan*  
Ken Mawatari, *Harvard University, CfA*  
Melissa McClure, *University of Michigan*  
Curtis McCully, *Rutgers, The State University of New Jersey*  
Michael McDonald, *Massachusetts Institute of Technology*  
BRIAN McLeod, *Harvard University, CfA*  
Karen Meech, *University of Hawaii*  
Julian Mejia, *Universidad de Chile*  
Adal Mesa-Delgado, *Pontificia Universidad Católica de Chile*  
Danny Milisavljevic, *Harvard University, CfA*  
Brendan Miller, *University of Michigan*  
Oscar Montoya, *The University of Arizona*  
Marcelo Mora, *Pontificia Universidad Católica de Chile*  
Lucerito Morales, *Universidad de Chile*  
Katie Morzinski, *The University of Arizona*  
Nicholas Moskovitz, *Massachusetts Institute of Technology*  
Roberto Muñoz, *Pontificia Universidad Católica de Chile*  
Ricardo Muñoz, *University of Michigan*  
Kathryn Neugent, *Lowell Observatory*  
Elisabeth Newton, *Harvard University, CfA*  
Timothy Norton, *Harvard University, CfA*  
John O'Meara, *Saint Michael's College*  
Sally Oey, *University of Michigan*  
Seulhee Oh, *Yonsei University, Korea*  
Marc Ordway, *Harvard University, CfA*  
Isabelle Paris, *Universidad de Chile*  
Steven Parson, *Universidad de Valparaiso, Chile*  
Anna Patel, *Harvard University, CfA*  
Brandon Patel, *Rutgers, The State University of New Jersey*  
Michael Person, *Massachusetts Institute of Technology*

Peter Pessev, *Gemini Observatory*  
Bogumil Pilecki, *Universidad de Concepción, Chile*  
Enrico Pinna, *The University of Arizona*  
David Polishook, *Massachusetts Institute of Technology*  
Alfio Puglisi, *The University of Arizona*  
Markus Rabus, *Pontificia Universidad Católica de Chile, HAT South*  
Benjamin Rackham, *The University of Arizona*  
Marc Rafelski, *California Institute of Technology*  
Ivan Ramirez, *The University of Texas*  
Keith Raybould, *Giant Magellan Telescope Organization*  
Alberto Rebassa, *Universidad de Valparaiso, Chile*  
Meghan Reiter, *The University of Arizona*  
Ron Remillard, *Massachusetts Institute of Technology*  
Alessandro Rettura, *California Institute of Technology*  
Armando Riccardi, *The University of Arizona*  
Bernardette Rodgers, *Gemini Observatory*  
Timothy Rodigas, *The University of Arizona*  
David Rodriguez, *Universidad de Chile*  
Dong-Goo Roh, *Yonsei University, Korea*  
Carol Rojas, *Pontificia Universidad Católica de Chile*  
Patricio Rojo, *Harvard University, CfA*  
John Roll, *Giant Magellan Telescope Organization*  
Maria Teresa Ruiz, *Universidad de Chile*  
Roberto Saito, *Pontificia Universidad Católica de Chile*  
Paula Sanchez, *Universidad de Chile*  
David Sand, *Texas Tech University*  
Nathan Sanders, *Harvard University, CfA*  
Felipe Santana, *University of Michigan*  
Paul Schechter, *Massachusetts Institute of Technology*  
Steve Schulze, *Pontificia Universidad Católica de Chile*  
Andreas Seifahrt, *The University of Chicago*  
Patrick Seitzer, *University of Michigan*  
Hyunju Seo, *Yonsei University, Korea*  
Jacqueline Seron, *National Science Foundation*  
Keren Sharon, *University of Michigan*  
Yun-Kyeong Sheen, *Universidad de Concepción, Chile*  
Yue Shen, *Harvard University, CfA*  
Scott Sheppard, *Department of Terrestrial Magnetism*  
Reid Sherman, *The University of Chicago*  
Matthew Shetrone, *The University of Texas*  
Robert Simcoe, *Massachusetts Institute of Technology*  
Mirko Simunovic, *Pontificia Universidad Católica de Chile*  
Brigitta Sipocz, *University of Hertfordshire, United Kingdom*  
Colin Slater, *University of Michigan*  
Nathan Smith, *The University of Arizona*  
Sarah Sonnet, *University of Hawaii*

Richard Sosa, *The University of Arizona*  
Piera Soto, *Universidad de La Serena, Chile*  
Justin Spilker, *The University of Arizona*  
Lee Spitler, *Macquarie University, Australia*  
Brian Stalder, *Harvard University, CfA*  
Daniel Stark, *The University of Arizona*  
Nicholas Sterling, *Universidad de Valparaiso, Chile*  
Kevin Stevenson, *The University of Chicago*  
Laura Sturch, *Pomona College*  
Vincent Suc, *Pontificia Universidad Católica de Chile*  
Peter Sullivan, *Massachusetts Institute of Technology*  
Andrew Szentgyorgyi, *Harvard University, CfA*  
Mauricio Tapia, *Universidad Nacional Autónoma, Mexico*  
Chris Tinney, *University of New South Wales, Australia*  
Elisa Toloba, *University of California, Santa Cruz*  
Martin Tourneboeuf, *Pontificia Universidad Católica de Chile*  
Ezequiel Treister, *Universidad de Concepción, Chile*  
Chad Trujillo, *Gemini Observatory*  
Brad Tucker, *National Science Foundation*  
Sergio Vasquez, *Pontificia Universidad Católica de Chile*  
Sylvain Veilleux, *University of Maryland*  
Matthew Walker, *Harvard University, CfA*  
Ran Wang, *The University of Arizona*  
David Weaver, *Giant Magellan Telescope Organization*  
Alycia Weinberger, *Department of Terrestrial Magnetism*  
Daniel Welty, *The University of Chicago*  
Ya-Lin Wu, *The University of Arizona*  
Marco Xompero, *The University of Arizona*  
Haojing Yan, *University of Missouri*  
Yujin Yang, *The University of Arizona*  
Huan Yang, *University of Science and Technology of China*  
Jason Young, *Pennsylvania State University*  
Qinsi Yu, *Massachusetts Institute of Technology*  
Alfredo Zeteno, *Ludwig Maximilian University, Germany*  
Zhenya Zheng, *Arizona State University*  
Yanjin Zhou, *Australian National University*

---

<sup>1</sup> To August 31, 2012

<sup>2</sup> To September 30, 2012

<sup>3</sup> From September 1, 2012

<sup>4</sup> From October 1, 2012

<sup>5</sup> From July 3, 2012

<sup>6</sup> To February 18, 2013

<sup>7</sup> From October 1, 2011, formerly Postdoctoral Associate, not reported previously

<sup>8</sup> From December 1, 2012

<sup>9</sup> From June 17, 2013

<sup>10</sup> To March 31, 2013

- <sup>11</sup> To December 31, 2012
- <sup>12</sup> To January 17, 2013
- <sup>13</sup> To May 1, 2013
- <sup>14</sup> To July 31, 2008, not reported previously
- <sup>15</sup> From March 8, 2013
- <sup>16</sup> From August 27, 2012
- <sup>17</sup> To July 24, 2012
- <sup>18</sup> To February 27, 2013
- <sup>19</sup> To March 15, 2013
- <sup>20</sup> From November 27, 2012
- <sup>21</sup> To February 12, 2013
- <sup>22</sup> From September 4, 2012

## **Plant Biology**

### **Research Staff Members**

M. Kathryn Barton  
Winslow R. Briggs, *Director Emeritus*  
José Dinneny  
David Ehrhardt  
Wolf B. Frommer, *Director*  
Arthur R. Grossman  
Seung Y. Rhee  
Zhi-Yong Wang

### **Adjunct Staff**

Devaki Bhaya  
Matthew Evans  
Eva Huala

### **Young Investigator**

Martin Jonikas

### **Senior Investigator**

Theodore Raab

### **Visiting Investigators**

Juan Simon Alamos, *Pontifical Catholic University of Chile*<sup>1</sup>  
Philipp Denninger, *University of Regensburg, Germany*<sup>2</sup>  
Li Gao, *Chinese Academy of Agricultural Sciences*<sup>3</sup>  
Natalia Gottig, *IBR-Conicet, Argentina*<sup>4</sup>  
Michael Jensen, *University of Copenhagen, Denmark*<sup>5</sup>  
Ulrich Kutschera, *University of Kassel, Germany*  
Alejandra Londono, *Universidad Icesi, Cali-Colombia*<sup>6</sup>  
Heather McFarlane, *University of British Columbia*<sup>7</sup>  
Jianfen Niu, *Chinese Academy of Sciences*<sup>8</sup>  
Eva Nowack, *University of Cologne, Germany*<sup>9</sup>  
Clara, Rodriguez, *Max Planck Institute of Molecular Plant Physics, Potsdam, Germany*<sup>10</sup>  
Maximilian Trippelsdorf, *University of Duesseldorf, Germany*<sup>11</sup>

### **Postdoctoral Fellows and Associates**

Manevver Aksoy, *Carnegie Fellow*  
Ute Armbruster, *DFG Fellow*  
Mingyi Bai, *Frasch Research Associate*<sup>12</sup>  
Flavia Bossi, *Carnegie Fellow*  
Claudia Catalanotti, *Carnegie Fellow*  
Lee Chae, *NSF Research Associate*  
Li-Qing Chen, *DOE Research Associate*  
Antony Chettoor, *NSF Research Associate*  
Jonas Danielson, *Swedish Research Council Fellow*  
Roberto DeMichele, *NSF Research Associate*<sup>13</sup>

Shahram Emami, *NSF Research Associate*  
 Jue Fan, *DOE Research Associate*<sup>13</sup>  
 Min Fan, *NIH Research Associate*<sup>14</sup>  
 Jianjun Gao, *NSF Research Associate*<sup>15</sup>  
 Guido Grossmann, *Carnegie Fellow*<sup>33</sup>  
 Thomas Hartwig, *Carnegie Fellow*<sup>16</sup>  
 Fanglian He, *Carnegie Fellow*<sup>17</sup>  
 Mark Heinnickel, *Carnegie Fellow*  
 Cheng-Hsun Ho, *NSF Research Associate*  
 Samuel Hokin, *NSF Research Associate*<sup>18</sup>  
 Xenie Johnson, *NSF Research Associate*<sup>19</sup>  
 Alexander Jones, *NSF Research Associate*  
 Rajnish Khanna, *Carnegie Fellow*  
 Taehyong Kim, *DOE Research Associate*  
 Tae-Wuk Kim, *NIH Research Associate*  
 Xiaobo Li, *NSF Research Associate*<sup>20</sup>  
 Jelmer Lindeboom, *Carnegie Fellow* **12/1/11**  
 Tie Liu, *NSF Research Associate*  
 Yongxian Lu, *Carnegie Fellow*  
 Luke Mackinder, *Carnegie Fellow*  
 Masayoshi Nakamura, *Carnegie Fellow*  
 Eva Nowack, *NSF Research Associate*<sup>21</sup>  
 Eunkyoo Oh, *Carnegie Fellow*  
 Chan-Ho Park, *Carnegie Fellow*  
 Leif Pallesen, *NSF Research Associate* **9/14/11**  
 Ruben Rellán-Alvarez, *Carnegie Fellow*<sup>9</sup>  
 Jose Sebastian, *DOE Research Associate*<sup>22</sup>  
 Nidhi Sharma, *Carnegie Fellow* **1/1/12**  
 Davide Sosso, *NSF Research Associate*  
 Mia Tereshima, *USAF Research Associate* **7/1/11**  
 Dimitri Tolleter, *Moore Research Associate*  
 Charlotte Trontin, *NSF Research Associate*<sup>23</sup>  
 Tong-Seung Tseng, *NSF Research Associate*  
 Ankit Walia, *Carnegie Fellow*  
 Chuan Wang, *NSF Research Associate*<sup>24</sup>  
 Chuangqi Wei, *NIH Research Associate*<sup>25</sup>  
 Renate Weizbauer, *Carnegie Fellow*<sup>23</sup>  
 TingTing Xiang, *Moore Research Associate*  
 Meng Xu, *NSF Research Associate* **10/15/11**  
 Shouling Xu, *DOE Research Associate*  
 Yuanhu Xuan, *NSF Research Associate* **1/15/12**  
 Wenqiang Yang, *Carnegie Fellow*  
 Ru Zhang, *USAF Research Associate*  
 Jiaying Zhu, *NIH Research Associate*<sup>15</sup>

**Predocctoral Fellows and Associates**

Yun Bao, *Fudan University, China*<sup>9</sup>  
 Lauro Brucker, *Universidade Federal do Rio Grande do Sol, Brazil*<sup>26</sup>  
 Shuolei Bu, *Hebei Normal University* **incorrectly listed as a postdoc last year**  
 Michele Davison, *Stanford University*  
 Lina Duan, *Temesk Lifesciences Lab, Singapore*<sup>21</sup>



Alvin Han, *Intern*<sup>28</sup>  
Bi-Huei Hou, *Laboratory Technician*  
David Huang, *Sr. Software Developer* 8/22/11  
Garret Huntress, *IS Manager*<sup>37</sup>  
Annie Inman, *Intern*<sup>38</sup>  
Nina Ivanova, *Lab Technician*<sup>39</sup>  
Lan Jiang, *Intern*  
Caryn Johansen, *Intern*  
Athikkatuvalasu Karthikeyan, *Curator*  
Jay Kim, *Intern*<sup>40</sup>  
Jynho Kim, *Intern*<sup>41</sup>  
Rick Kim, *Intern*<sup>32</sup>  
Philippe Lamesch, *Curator*<sup>33</sup>  
Chang-Jung Lee, *Intern*<sup>42</sup>  
Evana Lee, *Financial Analyst*  
Donghui Li, *Curator*  
Karen Li, *Intern*<sup>42</sup>  
Andrew Lin, *Intern*<sup>42</sup>  
Adam Longhurst, *Laboratory Technician* 7/11/11  
Shruti Manoj Kumar, *Laboratory Technician*  
Stephanie May, *Intern*<sup>42</sup>  
Blake McMurray, *Intern*<sup>34</sup>  
Jason Middleton, *Intern*<sup>43</sup>  
Madeline Mitchell, *Intern*<sup>44</sup>  
Robert Muller, *Technical Lead Curator*  
Hye In Nam, *Laboratory Technician*  
William Nelson, *Programmer*<sup>45</sup>  
John Nguyen, *Intern*<sup>28</sup>  
Weronika Patena, *Laboratory Technician*  
Sunita Patil, *Laboratory Technician*  
Lesley Peterson, *Intern*  
Kimberly Pham, *Intern*<sup>2</sup>  
Larry Ploetz, *Systems Administrator*  
Purdon, Rachel, *Intern*<sup>46</sup>  
Leonore Reiser, *Curator*<sup>36</sup>  
Sarah Rose, *Intern*<sup>34</sup>  
Russo, Luigi, *Intern*<sup>47</sup>  
Arun Sampathkumar, *Intern*<sup>42</sup>  
Valeria Sandoval, *Intern*<sup>48</sup>  
Maria Sardi, *Laboratory Technician*<sup>36</sup>  
Dasha Savage, *Intern*  
Emma Sedivy, *Intern*<sup>36</sup>  
Michael Seo, *Intern*<sup>17</sup>  
Alice Shieh, *Intern*<sup>31</sup>  
Shanker Singh, *Database Administrator*<sup>49</sup>  
Eric Slessarev, *Intern*<sup>36</sup>  
Paul Sterbentz, *Facilities Manager*<sup>27</sup>  
Tianying Su, *Laboratory Technician*  
Ann Sylvester, *Intern*<sup>35</sup>  
Franklin Talavera-Rauh, *Laboratory Technician*  
Evan Tang, *Intern*<sup>27</sup>



Tacqueline Tang, *Intern*<sup>50</sup>  
Tam Tran, *Intern*<sup>13</sup>  
Maxwell Tyler, *Intern*<sup>51</sup>  
Theodore van de Sande, *Operations Manager*<sup>52</sup>  
Erika Valle, *Laboratory Technician*<sup>53</sup>  
Ismael Villa, *Facilities Assistant*  
Raymond Von Itter, *Greenhouse Assistant*  
Tina Wang, *Intern*<sup>34</sup>  
Faatuai Williams, *Receptionist/AP Clerk*  
Naويا Williams, *Accounts Payable Specialist*  
Emilie Winfield, *Intern*<sup>8</sup>  
Dahlia Wist, *Greenhouse Manager*  
Muh-Ching Yee, *Sr. Laboratory Manager*<sup>25</sup>  
Peifen Zhang, *Curator*

- <sup>1</sup>To March 11, 2013  
<sup>2</sup>To September 16, 2012  
<sup>3</sup>From March 28, 2013 to May 28, 2013  
<sup>4</sup>From October 29, 2012 to November 2, 2012  
<sup>5</sup>From September 6, 2012 to November 30, 2012  
<sup>6</sup>From February 12, 2013 to August 2, 2013  
<sup>7</sup>From August 13, 2012 to August 20, 2012  
<sup>8</sup>From May 30, 2013  
<sup>9</sup>To July 2, 2012  
<sup>10</sup>From March 13, 2013 to April 5, 2013  
<sup>11</sup>From April 1, 2013 to June 30, 2013  
<sup>12</sup>To June 14, 2013  
<sup>13</sup>To August 30, 2012  
<sup>14</sup>From January 18, 2013  
<sup>15</sup>From July 16, 2012  
<sup>16</sup>From September 24, 2012  
<sup>17</sup>To September 30, 2012  
<sup>18</sup>From January 15, 2013  
<sup>19</sup>From July 1, 2012 to October 31, 2012  
<sup>20</sup>From November 18, 2012  
<sup>21</sup>From July 3, 2012  
<sup>22</sup>From December 16, 2012  
<sup>23</sup>From June 3, 2013  
<sup>24</sup>From October 1, 2012  
<sup>25</sup>From September 1, 2012  
<sup>26</sup>To February 16, 2013  
<sup>27</sup>From May 6, 2013  
<sup>28</sup>From June 17, 2013  
<sup>29</sup>To June 1, 2013  
<sup>30</sup>From August 27, 2012 to November 26, 2012  
<sup>31</sup>To July 15, 2012  
<sup>32</sup>To June 30, 2013  
<sup>33</sup>To December 21, 2012

- <sup>34</sup>From June 10, 2013
- <sup>35</sup>From March 20, 2013
- <sup>36</sup>To July 31, 2012
- <sup>37</sup>From January 10, 2013
- <sup>38</sup>From April 22, 2013 to May 5, 2013
- <sup>39</sup>From December 10, 2012
- <sup>40</sup>To October 16, 2012
- <sup>41</sup>From March 21, 2013 to June 30, 2013
- <sup>42</sup>From June 27, 2013
- <sup>43</sup>From January 1, 2013
- <sup>44</sup>From July 19, 2012 to September 12, 2012
- <sup>45</sup>To April 19, 2013
- <sup>46</sup>From March 1, 2013 to June 1, 2013
- <sup>47</sup>From May 7, 2013 to June 30, 2013
- <sup>48</sup>From July 1, 2012 to September 30, 2012
- <sup>49</sup>To February 8, 2013
- <sup>50</sup>From July 1, 2012 to September 1, 2012
- <sup>51</sup>From July 1, 2012 to August 15, 2012
- <sup>52</sup>From April 22, 2013
- <sup>53</sup>To March 28, 2013

## **Terrestrial Magnetism**

### **Research Staff Members**

L. Thomas Aldrich, *Emeritus*<sup>1</sup>  
Conel M. O'D. Alexander  
Alan P. Boss  
R. Paul Butler  
Richard W. Carlson  
John E. Chambers  
Linda T. Elkins-Tanton, *Director*  
Matthew J. Fouch  
John A. Graham, *Emeritus*  
Erik H. Hauri  
David E. James  
Alan T. Linde  
Larry R. Nittler  
Diana C. Roman  
Scott S. Sheppard  
Steven B. Shirey  
Sean C. Solomon, *Director Emeritus*<sup>2</sup>  
Fouad Tera, *Emeritus*  
Alycia J. Weinberger

### **Senior Fellows**

Vera C. Rubin  
I. Selwyn Sacks

### **Postdoctoral Fellows and Associates**

Pamela Arriagada, *Carnegie Fellow*<sup>3</sup>  
Susan D. Benecchi, *Carnegie Fellow*  
Terrence Blackburn, *Carnegie Fellow*<sup>4</sup>  
Paul K. Byrne, *MESSENGER Fellow*  
Joleen K. Carlberg, *Vera Rubin Fellow*  
Kelsey A. Druken, *Carnegie Fellow*  
Brian K. Jackson, *Carnegie Fellow*  
Frances E. Jenner, *Carnegie Fellow*<sup>5</sup>  
Styliani (Stella) Kafka, *NASA Astrobiology Institute Fellow*<sup>6</sup>  
Christian Klimczak, *MESSENGER Fellow*  
Marion Le Voyer, *Deep Carbon Observatory Fellow*<sup>7</sup>  
Jared P. Marske, *Deep Carbon Observatory Fellow*  
Christian A. Miller, *NASA Associate*<sup>8</sup>  
Nicholas A. Moskowitz, *Richard B. Roberts Fellow, Carnegie Fellow, and NASA Astrobiology Institute Associate*<sup>9</sup>  
Alexander P.A. Peeters, *NASA Astrobiology Institute Associate*<sup>10</sup>

Ryan C. Porter, *Silver Fellow then NSF Associate*  
Hanika Rizo, *Carnegie Associate*<sup>11</sup>  
Deborah E. Smith, *Carnegie Fellow*<sup>12</sup>  
Christopher C. Stark, *Carnegie Fellow*<sup>13</sup>  
Liyan Tian, *Carnegie Fellow*  
Christelle Wauthier, *Carnegie Fellow*  
Shoshana Z. Weider, *MESSENGER Fellow*

### **Visiting Students, Interns, Predoctoral Fellows, and Associates**

Claire Bendersky, *Lamont-Doherty Earth Observatory*  
Jennifer Burt, *University of California Santa Cruz*  
David Ferguson, *Lamont-Doherty Earth Observatory*  
Tarzan Kwadiba, *University of Witwatersrand*  
Alex Lloyd, *Lamont-Doherty Earth Observatory*  
Davide Novella, *Bayerisches Geoinstitut, University of Bayreuth*  
Philipp Ruprecht, *Lamont-Doherty Earth Observatory*  
Angela Schad, *University of Delaware*  
Kei Shimizu, *Brown University*  
Michael Turner, *Macquarie University*  
Emily Tursack, *Woods Hole Oceanographic Institution*  
Kristina Walowski, *University of Oregon*

### **Merle A. Tuve Senior Fellows**

David Bercovici, *Yale University*  
Michael Werner, *Jet Propulsion Laboratory*

### **Supporting Staff**

Michael J. Acierno, *IT/IS Manager/Systems Engineer*  
Raymond Aylor, *Machinist, Instrument Maker*  
Maceo T. Bacote, *Building Engineer*<sup>14</sup>  
Tyler Bartholomew, *Machinist Apprentice*  
Gary A. Bors, *Building Engineer*<sup>14</sup>  
Michael J. Crawford, *Machinist, Instrument Maker*  
Kasey Cunningham, *Administrative Assistant*  
Roy R. Dingus, *Facility Manager*<sup>14</sup>  
Janice S. Dunlap, *Assistant to the Director*  
Pablo D. Esparza, *Maintenance Technician*<sup>14</sup>  
Steven Golden, *Field Seismologist*  
Shaun J. Hardy, *Librarian*<sup>14</sup>  
Mary F. Horan, *Geochemistry Laboratory Manager*  
Sandra A. Keiser, *Scientific Computer Programmer/Systems Manager*  
William E. Key, *Building Engineer*<sup>14</sup>  
Wan K. Kim, *Staff Accountant*  
Quintin Miller, *Engineer Apprentice*<sup>14</sup>  
Timothy D. Mock, *Mass Spectrometry Laboratory Manager*  
Ben K. Pandit, *Electronics Laboratory Manager*

Daniela D. Power, *Geophysical Research Assistant*  
Pedro J. Roa, *Maintenance Technician*<sup>14, 15</sup>  
Brian P. Schleigh, *Electronic Design Engineer*  
Terry L. Stahl, *Fiscal Officer*  
Jianhua Wang, *Senior Research Scientist and SIMS Lab Manager*  
Merri Wolf, *Library Technical Assistant*<sup>14</sup>

### **Visiting Investigators List**

Leonard Ancuta, *Lehigh University*\*

Meagan Ankney, *University of Wisconsin*\*

Mark D. Behn, *Woods Hole Oceanographic Institution*\*\*

David Bercovici, *Yale University*\*\*\*

Benjamin Black, *Massachusetts Institute of Technology*\*, \*\*\*

Craig R. Bina, *Northwestern University*\*\*

Ingi Th. Bjarnason, *Science Institute, University of Iceland*\*\*

Lydie Bonal, *Institut de Planetologie et d'Astrophysique de Grenoble, France*\*, \*\*\*

Lars Borg, *Livermore National Laboratory*\*

Maud Boyet, *Laboratoire Magmas et Volcans, Clermont-Ferrand*

Henner Busemann, *University of Manchester*\*

Jay A. Brandes, *Skidaway Institute of Oceanography*\*\*

Emily Brodsky, *University of California, Santa Cruz*\*\*

Kevin C. Burke, *University of Houston*\*\*

Lindsey Chambers, *University of California, Santa Cruz*\*\*

Chin-Wu Chen, *National Taiwan University*\*\*\*

James Y.-K. Cho, *University of London*\*\*

Inés L. Cifuentes, *American Geophysical Union*\*\*

Roy S. Clarke, Jr., *Smithsonian Institution, National Museum of Natural History*\*\*

Clinton P. Conrad, *University of Hawaii*\*\*

Catherine M. Cooper, *Washington State University*\*\*

Lynn Elkins, *Bryn Mawr*\*

Maureen Feineman, *Penn State University*\*

Lucy M. Flesch, *Purdue University*\*\*

Glenn Gaetani, *Woods Hole Oceanographic Institution*\*

Eloïse Gaillou, *Museum of Natural History, Los Angeles*

Stephen S. Gao, *Missouri University of Science and Technology*\*\*

Natalia Gómez-Pérez, *Universidad de Los Andes, Colombia*\*\*

Harry W. Green II, *University of California, Riverside*\*\*

Jason Harvey, *University of Leeds, UK*\*

Stefanie Hautmann, *University of Bristol, UK*\*

Jussi Heinonen, *University of Helsinki, Finland*

William E. Holt, *State University of New York, Stony Brook*

Emilie E. E. Hooft Toomey, *University of Oregon*\*\*

Ya-Ju Hsu, *Academia Sinica*

Satoshi Inaba, *Waseda University, Japan*\*\*\*

Dmitri Ionov, *Université Jean Monnet, St. Etienne*

Neng Jiang, *Chinese Academy of Sciences*\*\*

Catherine L. Johnson, *University of British Columbia*\*\*  
Karl Kehm, *Washington College*  
Katherine A. Kelley, *University of Rhode Island*  
Christopher R. Kincaid, *University of Rhode Island*  
Carolina Lithgow-Bertelloni, *University College London*\*\*  
Jia Liu, *University of Science and Technology, China*\*  
Ming-Chang Liu, *Academica Sinica, Taiwan*\*  
Maureen D. Long, *Yale University*  
Mercedes López-Morales, *Harvard-Smithsonian Center for Astrophysics*\*\*  
Fukashi Maeno, *The University of Tokyo*\*\*  
Patrick J. McGovern, *Lunar and Planetary Institute*\*\*  
David Mencin, *UNAVCO, Boulder*\*  
Wendy Nelson, *University of Houston*  
Francis Nimmo, *University of California, Santa Cruz*  
Fenglin Niu, *Rice 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*\*\*  
Joseph Rodriguez, *George Mason University*\*\*  
Thomas G. Ruedas, *German Aerospace Center, Berlin*\*\*  
Paul A. Rydelek, *Memphis, TN*\*\*\*  
Alberto Saal, *Brown University*\*\*\*  
Brian Savage, *University of Rhode Island*\*\*  
Martha K. Savage, *Victoria University, New Zealand*  
Manuel Schilling, *Universidad de Chile*  
Nicholas Schmerr, *Goddard Space Flight Center*\*\*\*  
Maria Schönbachler, *University of Manchester*\*\*  
A. M. Celâl Şengör, *Istanbul Technical University*\*\*  
Alison M. Shaw, *Woods Hole Oceanographic Institution*  
Yang Shen, *University of Rhode Island*\*\*  
David W. Simpson, *Incorporated Research Institutions for Seismology*\*\*  
J. Arthur Snoke, *Virginia Polytechnic Institute and State University*\*\*  
Teh-Ru Alex Song, *Yokohama Institute for Earth Science, IFREE, JAMSTEC*\*\*\*  
Rhonda Stroud, *Naval Research Laboratory*\*, \*\*\*  
Erik O. Sturkell, *University of Iceland*  
Daoyuan Sun, *University of Southern California*  
Kiyoshi Suyehiro, *Integrated Ocean Drilling Program (IODP), Tokyo University of Marine Science and Technology*\*\*  
Taka'aki Taira, *University of California, Berkeley*  
Aki Takigawa, *Kyoto University*\*\*\*  
Tetsuo Takanami, *Earthquake Research Institute of Tokyo*\*\*\*  
Cristina Thomas, *Goddard Space Flight Center*\*  
Henry B. Throop, *NASA Headquarters and Southwest Research Institute*\*\*  
Douglas R. Toomey, *University of Oregon*\*\*  
Tomohiro Usui, *Tokyo Institute of Technology*\*, \*\*\*

Nathalie J. Valette-Silver, *National Oceanic and Atmospheric Administration*\*\*  
John C. VanDecar, *Nature Magazine, London*\*\*  
Suzan van der Lee, *Northwestern University*\*\*  
Lara S. Wagner, *University of North Carolina, Chapel Hill*  
Linda M. Warren, *St. Louis University*  
Andrew A. West, *Boston University*\*\*  
Elisabeth Widom, *Miami University, Ohio*  
Jack Wisdom, *Massachusetts Institute of Technology*\*, \*\*\*  
Cecily J. Wolfe, *U.S. Geological Survey*\*\*\*  
Jiuxing Xia, *University of Science and Technology, China*\*

<sup>1</sup> Died May 1, 2013

<sup>2</sup> On Leave of Absence

<sup>3</sup> From August 20, 2012

<sup>4</sup> From September 5, 2012

<sup>5</sup> To July 13, 2013

<sup>6</sup> To September 16, 2012

<sup>7</sup> To May 15, 2013

<sup>8</sup> To December 31, 2012

<sup>9</sup> To August 31, 2012

<sup>10</sup> To October 31, 2012

<sup>11</sup> From 15 October 2012

<sup>12</sup> To May 15, 2013

<sup>13</sup> To July 18, 2013

<sup>14</sup> Joint appointment with Geophysical Laboratory

<sup>15</sup> To September 1, 2012

\*From June 16, 2013

\*\*To June 16, 2013

\*\*\*In residence for a portion of the reporting year