

## Jie (Jackie) Li

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### Education

1992 B.S. University of Science and Technology of China (Geochemistry)  
1997 M.A. Harvard University (Geophysics)  
1998 Ph.D. Harvard University (Earth and Planetary Sciences)

### Positions Held

2016- Professor, University of Michigan  
2010-2016 Associate Professor, University of Michigan  
2009 Associate Professor, University of Illinois  
2003-2009 Assistant Professor, University of Illinois  
2000-2003 Postdoctoral Associate, Carnegie Institution for Science  
1998-2000 Gilbert Postdoctoral Fellow, Carnegie Institution for Science  
  
2018 Blaustein Visiting Adjunct Professor, Stanford University  
2013 Short-Stay Visitor, Institute of Advanced Studies, University of Western Australia  
2012 Japan Global Center of Excellence Scholar, Tohoku University  
2012 Tharp Fellow, Columbia University  
1996-1997 Resident Tutor, Winthrop House, Harvard University

### Awards and Honors

2013 Kavli Fellow, National Academy of Sciences  
2010 Fellow, Mineralogical Society of America  
2009-2010 COMPRES (*Consortium for Materials Properties Research*) Distinguished Lecturer  
2009 Helen Corley Petit Scholar, University of Illinois, College of Liberal Arts and Sciences  
2009-2010 Center for Advanced Study Fellow, University of Illinois  
2003-2008 Teachers Ranked as Excellent by Their Students, University of Illinois  
1992 Presidential Guo Morou Prize, University of Science and Technology of China

### Professional Society Membership

2016- American Association for the Advancement of Science (AAAS)  
1998- Mineralogical Society of America (MSA)  
1996- Geochemical Society (GS)  
1993- American Geophysical Union (AGU)

### Professional Service

2021 Nominations Committee, COMPRES (*Consortium for Materials Properties Research*)  
2019-2022 National Synchrotron Light Source II (NSLS-II) High Energy Diffraction Proposal Review Panel  
2018 NASA "InSight" Participating Scientist Review Panel  
2018 Lead organizer, Deep Carbon Observatory International Workshop on "Earth in Five Reactions", Washington DC  
2018-2019 Associate Editor, *American Mineralogy* special collection on "Earth in Five Reactions"  
2017 Co-organizer, MIRA Conference "The Origins of Volatiles in Habitable Planets: The Solar System and Beyond", University of Michigan, Ann Arbor, MI  
2016-2019 Executive Committee, COMPRES (*Consortium for Materials Properties Research*)  
2016-2017 Scientific Program Committee for Deep Carbon Observatory (DCO)'s 3rd International Science Meeting in St. Andrews, Scotland, March 22-24, 2017

- 2016-2020 Steering Committee of DCO Extreme Physics and Chemistry (EPC) Community
- 2015 Nominations Committee, COMPRES (*Consortium for Materials Properties Research*)
- 2014 Co-organizer, MIRA Conference "Circumstellar Disks and Planet Formation", University of Michigan, Ann Arbor, MI
- 2013-2016 Infrastructure Development Committee, COMPRES (*Consortium for Materials Properties Research*)
- 2012-2016 Chair, Advisory Committee, CIDER (*Cooperative Institute for Dynamic Earth Research*)
- 2012 CSEDI Review Panel, the US NSF (*National Science Foundation*)
- 2011 Advisory Committee, CIDER (*Cooperative Institute for Dynamic Earth Research*)
- 2011 Cosmochemistry Review Panel, Planetary Science Division, NASA
- 2010 Organization Committee, CIDER (*Cooperative Institute for Deep Earth Research*) Summer School, University of California, Santa Barbara, CA
- 2008-2011 Infrastructure Development Committee, COMPRES (*Consortium for Materials Properties Research*)
- 2007-2010 Geochemistry and Petrology Review Panel, the US NSF (*National Science Foundation*)
- 2007-2009 High Pressure Review Panel, APS (*the Advanced Photon Source*), Argonne National Laboratory
- 2006 Nominations Committee, COMPRES (*Consortium for Materials Properties Research*)
- 2002-2004 Represent MRP (*Mineral and Rock Physics*) at the AGU Program Committee

### Invited Talks

- 2022 **Keynote**, Nature Conference "Frontiers of High-Pressure Research Science under Extreme Conditions", Beijing, China, 2022
- 2019 "Deep Carbon 2019" by Deep Carbon Observatory, 10/26/2019
- 2019 Michigan Center for Materials Characterization Raman Imaging Workshop, 10/9/2019
- 2019 Goldschmidt Conference, Barcelona, Spain, 08/20/2019
- 2019 The 4th International Conference on Matter and Radiation at Extremes, Hefei, China, 06/01/2019
- 2019 China University of Geosciences, 04/27/2019
- 2019 Institute of Geochemistry, Chinese Academy of Science, Guangzhou, China, 06/19, 06/20/2019,
- 2018 Helmholtz-Zentrum Potsdam, Deutsches GeoForschungsZentrum, Germany, 09/30/2018
- 2018 Bayerisches Geoinstitut, Universität Bayreuth, Germany, 10/02/2018
- 2018 Das Institut für Geowissenschaften, Universität Frankfurt, Germany, 10/04/2018
- 2018 Center for High Pressure Science & Tech. Advanced Research (HPSTAR), Shanghai, PR China, 07/25/18
- 2018 **Keynote**: review on mineral physics, Wuhan University, 06/30/18
- 2017 NextProf 2017 workshop, *Faculty Search Process\_Part2 (On-campus visit)* 05/04/2017
- 2017 American Geophysical Union Fall meeting, New Orleans, LA, 12/13/2017
- 2017 Annual Meeting Michigan Microscopy and Microanalysis Society and (MC)2 Open house Workshop, 11/01/17
- 2017 Workshop on "Challenges in the study of materials at extreme conditions using DAC at NSLS-II" 10/28/17
- 2017 Michigan State University, 10/27/17
- 2017 Goldschmidt Session Conference, Paris, France, 08/16/2017
- 2017 Center for High Pressure Science & Tech. Advanced Research (HPSTAR), Beijing, PR China, 06/09/17
- 2017 State Key Lab of Superhard Materials, Jilin University, Changchun, P.R. China, 06/06/17
- 2017 The Edwin Allday Lectureship Distinguished Lecturer in Geology for the DeFord Lecture Series, Jackson School, UT Austin, 02/09/17
- 2017 Departmental Seminar, 12-1 W, IPGST (Informal Petrology, Geochemistry, Structure, and Tectonics); F. morning, UTIG (Institute of Geophysics), 02/08/17,
- 2017 GRC (*Geodynamics Research Center*), Ehime University, Japan, 01/13/17
- 2016 University of Michigan "Saturday Morning Physics" Public Lecture, 10/08/16
- 2016 Japan Geoscience Union Meeting, Chiba, Japan, 05/16/16
- 2016 Geophysical Laboratory, Carnegie Institution of Washington, 01/13/16
- 2015 American Geophysical Union Fall meeting, San Francisco, CA, 12/15/15

- 2015 Deep Carbon Observatory "Synthesis and Planning workshop", U. Rhode Island, 10/29/15
- 2015 Department of Earth Sciences seminar series, ETH Zurich, Switzerland, 10/12/15
- 2015 Goldschmidt Conference, **Keynote Speaker**, Prague, Czech Republic, 08/15/15
- 2015 Deep Carbon Observatory "Carbon Modeling and Visualization Workshop", Smithsonian Institution, Washington, D.C., 05/15/15
- 2015 Physics Department Colloquium, University of Michigan, 04/01/15
- 2015 Deep Carbon Observatory Second International Conference, Munich, Germany, 03/26/15
- 2015 Center for High Pressure Science & Tech. Advanced Research, Shanghai, China, 02/10/15
- 2015 Caltech Planetary Science Seminar, 01/15/15
- 2015 Kavli Inst. for Theoretical Physics "Dynamics and Evolution of Earth-like Planets", 01/15/15
- 2014 American Geophysical Union Fall meeting, San Francisco, CA, 12/14/14
- 2014 Geoneutrino Working Group Meeting, Santa Barbara, CA, 07/14/14
- 2013 Department of Earth and Atmospheric Sciences, Cornell University, 04/17/13
- 2013 Study of Matter under Extreme Conditions (SMEC) Conference, Cruise Miami to Caribbean islands, 03/29/13
- 2013 Institute of Advanced Studies Public lecture, University of Western Australia, 03/04/13
- 2013 School of Physics, University of Western Australia, 03/05/13
- 2012 American Geophysical Union Fall meeting, San Francisco, CA, 12/07/12
- 2012 Department of Earth and Planetary Sciences, Tokyo Inst. Technology, Japan, 06/05/12
- 2012 Department of Earth Science, Tohoku University, Japan, 05/30/12
- 2012 Department of Earth and Space Sciences, Osaka University, Japan, 05/29/12
- 2012 Japan Geophysical Union Annual Meeting, 05/20/12
- 2012 Lamont-Doherty Earth Observatory Geochemistry Seminar, Columbia University, 02/29/12
- 2010 Gordon Conference on High Pressure Research, **Keynote Speaker**, Holderness, NH
- 2010 University of California at Berkeley (COMPRES Distinguished Lecture)
- 2010 University of California at Davis (COMPRES Distinguished Lecture)
- 2010 University of Western Ontario, London, Canada (COMPRES Distinguished Lecture)
- 2010 Winona State University, Winona, MN (COMPRES Distinguished Lecture)
- 2010 Stanford University, Palo Alto, CA
- 2009 Harvard University, Cambridge, MA
- 2009 Gordon Conference on the Interior of the Earth, **Keynote Speaker**, South Hadley MA
- 2008 American Geophysical Union Fall Meeting, San Francisco CA
- 2008 Advances in High-Pressure Science Using Synchrotron X-rays, National Synchrotron Light Source, Brookhaven National Laboratory, Long Island NY, 10/08
- 2008 COMPRES Annual Meeting, **Keynote Speaker**, Colorado Springs CO
- 2008 Workshop to Introduce High-Resolution Inelastic X-ray Scattering on Earth Materials using Synchrotron Radiation, Argonne National Laboratory, Argonne IL, 05/08
- 2008 Northwestern University, Evanston, IL, 05/08
- 2008 Carnegie Institution of Washington, Washington DC, 05/08
- 2008 University of Michigan, Ann Arbor, MI, 03/08
- 2008 University of Illinois, Urbana IL, 02/08
- 2007 Carnegie Institution of Washington, Washington DC 10/07
- 2007 21<sup>st</sup> Century Center of Excellence EASTEC Symposium on Dynamic Earth: Its Origin and Future, Sendai, Japan, 09/07
- 2007 University of Michigan Smith Lecture Series, Ann Arbor MI, 04/07
- 2007 University of New Mexico, Albuquerque NM, 02/07
- 2006 American Geophysical Union Spring Meeting, Baltimore MD, 05/06
- 2006 Japanese Geoscience Union Meeting, Chiba City, Japan, 05/06
- 2006 Tohoku University, Sendai, Japan, 05/06
- 2006 Tokyo Institute of Technology, Tokyo, Japan, 05/06
- 2006 Workshop on Synergy of 21<sup>st</sup> Century High-Pressure Science and Technology, Argonne IL, 05/06
- 2005 American Geophysical Union Fall Meeting, San Francisco CA, 12/05
- 2005 Purdue University, West Lafayette IN, 09/05
- 2005 High-Pressure Melts Workshop, Institute of Meteoritics, Albuquerque NM, 07/05

- 2005 Gordon Conference on "the Interior of the Earth", **Keynote Speaker**, Mount Holyoke College, South Hadley MA, 06/05
- 2004 University of Michigan Smith Lecture Series, Ann Arbor MI, 10/04
- 2004 Meeting of Young Researchers in Earth Sciences (MYRES), **Keynote Speaker**, University of California, San Diego CA, 08/04
- 2004 COMPRES Annual Meeting, Lake Tahoe CA, 06/04
- 2004 Elasticity Grand Challenge Workshop, University of Illinois, Urbana IL, 05/04
- 2003 University of Illinois Geoclub Seminar Series, 09/03
- 2004 European Geophysical Society-American Geophysical Union-European Union of Geosciences Joint Assembly, Nice, France, 05/04
- 2002 Centennial Symposium on *The Living Planet*, Carnegie Institution of Washington, 09/02
- 2002 Carnegie Institution of Washington, Geophysical Laboratory Colloquium Series, 06/02
- 2002 University of Toronto, Department of Geology, 02/02
- 2002 University of Illinois, Department of Geology, 02/02
- 2001 The International Symposium on *Transport of Material in the Dynamic Earth*, Japan, 09/01
- 2001 The 18<sup>th</sup> International Conference on *High Pressure Science and Technology*, P. R. China, 07/01
- 2000 Princeton University, Department of Geosciences, 04/00
- 2001 Bayerisches Geoinstitut, Germany, 01/01
- 1998 University of Maryland, Department of Geology, 10/98
- 1997 University of Chicago, Department of Geophysical Sciences, 11/97
- 1997 Carnegie Institution of Washington, Geophysical Laboratory Colloquium Series, 03/97
- 1997 Woods Hole Oceanographic Institution, 02/97

## Research Grants

### University of Michigan

- 2021-2022 Jason Nicholas, **Jie Li** Collaborative: EAGER: Demonstration that Thin Film Phase Transformations Can Be Monitored at High-Temperature and High-Pressure in a Diamond Anvil Cell, NSF Geophysics, Nicholas EAR-2031331, Li 2031149. Total \$100,000, Li \$35,000, 01/15/2021-04/30/2022
- 2021 **Jie Li**, Sweetland Senior Fellow \$4,000
- 2019-2020 Emmanouil (Manos) Kioupakis, Ferdinand Poudeu, **Jie Li**, Mcubed, \$15,000, " Synthesis and characterization of semiconducting rutile oxides". Li's share \$5,000, 02/15/19-12/31/20
- 2018-2021 Aaron Wolf, **Jie Li**, Rebecca Lange, "Alkaline-Earth Carbonate Melts at Deep Earth Conditions", NSF SEDI EAR1763189, Li \$230,000,00, Total \$680,031, 04/01/18-03/31/22
- 2019-2020 **Jie Li** (Allison Pease). "Liquidus determination of the (Fe,Ni)-S system with implications for The Geological Society of America (GSA) 12345-19, \$2,500, 07/01/19-04/30/20
- 2017-2019 **Jie Li** "Physics and chemistry of carbides and carbonates in Earth's mantle and core, Sub-award 0995 G TA489 to Sloan Foundation Deep Carbon Observatory Grant G-2015-14085 (Craig Manning), Li \$44,800, 11/01/17-10/31/19
- 2017-2018 Jie Li, "Making a habitable planet from Earth materials", sub-award to (Howard Huges Medical Institution) grant "Does Authentic Research in Introductory Courses Increase Persistence in STEM" (Deborah Goldberg), Li \$31,000, 08/01/17-08/31/19
- 2016-2019 Jie Li, Simon Redfern (U. Cambridge), "Earth in five reactions (5R) - A Deep Carbon Perspective", Sloan Foundation G-2016-7157, Li \$125,000, 11/01/16-09/30/19
- 2016-2017 **Jie Li**, CIDER (Cooperative Institute for Dynamic Earth Research" Working Group on "Reference Geotherms", Li \$15,000, 05/31/2016-8/31/2017
- 2015-2017 **Jie Li** "Physics and chemistry of carbides and carbonates in Earth's mantle and core, Sub-award 0995 G TA489 to Sloan Foundation Deep Carbon Observatory Grant G-2015-14085 (Craig Manning), Li \$44,800, 11/01/15-10/31/17
- 2015-2019 Sarah Stewart-Mukhopadhyay (UC Davis), **Jie Li**, Dylan Spaulding, "Shock-induced melting and vaporization experiments on planetary materials", NASA Solar System Working NNX15AG54G, Li \$175,340, Total \$1,494,970, 07/01/15-06/30/19
- 2014-2015 Zhao, J. Alp E.E, Bi W., Lin J-F, Struzhkin V., Shim S-H, **Li J.**, Chen B., "Development of High-Pressure and Low-Temperature Nuclear Resonant Scattering Capabilities for Studying

- Planetary Materials in Extreme Environments", COMPRES Infrastructure Development, Li Access, Total \$40,331
- 2014-2015 **Jie Li**, Subcontract from Sarah Stewart, Harvard University, \$28,900
- 2013-2017 Edwin Bergin, **Jie Li**, Geoffrey A. Blake (Caltech), Marc M. Hirschmann (UMN), "Following the Carbon Trail in Planetary Formation", NSF INSPIRE Track 1 AST 1344133, Li \$192,959, Total \$799,868, 09/15/13-08/31/17
- 2013-2014 **Jie Li**, Terry Plank, David Walker, "Experimental investigations of Earth's deep carbon cycle", Umich Elizabeth Crosby Faculty Grants Program, Li \$20,000, Total \$20,000
- 2012 **Jie Li**, Spring Summer Graduate Partnership, University of Michigan, \$6,000
- 2012 **Jie Li**, LSA Associate Professor Support Fund, University of Michigan, \$100,000
- 2012-2014 **Jie Li**, Bin Chen, "Experimental investigations of carbon in Earth's core", NSF Petrology and Geochemistry EAR 129891, \$318,745, 07/15/12-06/30/14
- 2011-2012 Hongwu Xu, **Jie Li**, "Understanding Earth's Deep Water Cycle: Neutron Diffraction and Calorimetric Studies of Hydrous Minerals", LANL/IGPP, Li \$14,000, Total \$14,000
- 2010-2013 **Jie Li**, Hongwu Xu, "Pressure-Induced Magnetic Transitions in Iron Carbides", Carnegie/Department of Energy Alliance (CDAC), DOE/NNSA DE-FC52-08NA28554, \$171,173
- 2010-2012 **Jie Li**, "Chemical convection in iron-rich planetary cores", NASA Cosmochemistry NXX10AG97G, \$169,250
- 2010-2011 Dane Morgan, **Jie Li**, "Collaborative research: Theoretical and experimental investigation on the role of iron the physics and chemistry of the lower mantle", National Science Foundation Geophysics EAR-1025629, Li \$120,085, Total \$120,085
- 2010-2011 **Jie Li**, Wolfgang Sturhahn, "Constraints on core composition from nuclear resonant scattering and x-ray diffraction studies on Fe-light-element compounds", National Science Foundation Geophysics EAR-1023729, Li \$116,207, Total \$116,207
- 2009-2010 Ercan Alp, Wolfgang Sturhahn, **Jie Li**, Jennifer Jackson, Jung-Fu Lin, D. E. Brown, "A Mossbauer Spectroscopy Facility for the High Pressure Community", National Science Foundation, COMPRES Infrastructure Development, Li Access, Total \$110,000

#### University of Illinois

- 2009 **Jie Li**, "Chemical convection in iron-rich planetary cores", NASA Cosmochemistry NXX09AB94G, \$90,000
- 2008-2009 **Jie Li**, David Cahill, "Thermal conductivity of high-pressure ices and iron-rich phases using time-domain thermo-reflectance method and diamond anvil cells", Carnegie/Department of Energy Alliance (CDAC), DOE/NNSA, DE-FC52-08NA28554, \$127,513
- 2008-2009 Dane Morgan, **Jie Li**, "Collaborative research: Theoretical and experimental investigation on the role of iron the physics and chemistry of the lower mantle", National Science Foundation Geophysics EAR-0738886, Li: \$158,866
- 2008-2011 **Jie Li**, Ercan Alp, Wolfgang Sturhahn, "Pressure-induced magnetic transition and sound velocities of iron-carbon alloys", Argonne National Laboratory No. 4J-00181, Li \$127,807
- 2006-2009 **Jie Li**, Wolfgang Sturhahn, "Constraints on core composition from nuclear resonant scattering and x-ray diffraction studies on Fe-light-element compounds", National Science Foundation Geophysics EAR-0609639, \$337,405
- 2006-2008 **Jie Li**, "Investigating Earth and planetary cores using a novel diffusion multiples method" University of Illinois Research Board Award 06238, \$18,500
- 2003-2006 **Jie Li**, "Experimental investigations of solid-liquid boundary in the Earth's core" National Science Foundation, Geochemistry and Petrology EAR-0337612, \$242,297

#### **University Service**

- 2015-2017 LSA Academic Judiciary Committee

#### **Departmental Service (selected)**

##### University of Michigan

- 2019-2020 Qualifying Exam Committee
- 2015-2016 Executive Committee

- 2015-2016 Undergraduate advisor
- 2016- EMAL Oversight Committee
- 2013-2015 Turner Postdoctoral Fellowship Committee (Chair)
- 2011-2012 Executive Committee
- 2010 Preliminary Exam Standing Committee
- 2010 Graduate Admission Committee
- 2010 Faculty lead, Cluster hire proposal on "Exoplanets"

#### University of Illinois

- 2005-2007 Placement Committee (Chair)
- 2005-2009 Undergraduate Committee (Chair)
- 2004-2009 Graduate Admission Committee
- 2003-2005 Library Committee (Chair)
- 2003 Search Advisory Committee for "Water as a Complex System"

### **Summary of Courses Taught**

- Earth 111 Formation of a Habitable Planet
- Earth 113 Planets and Moons (enrollment up to 400, best Q1/Q2=4.4/5.0)
- Earth 116 Intro Geology (field course, taught at Camp Davis)
- Earth 153 Earth-Like Planets (freshman seminar, 3 credits, best Q1/Q =4.9/5.0)
- Earth 315 Earth Materials (4 credits, best Q1/Q2 =4.9/5.0)
- Earth 396 Making a habitable planet from Earth materials (1 credit, Q1/Q2=4.2/4.8)
- Earth 525 Tectonophysics (1 of 4 credits, lecture, best Q1/Q2 4.8/5.0)
- Earth 554 Thermodynamics and Kinetics (2 of 4 credits, lecture, best Q1/Q2 4.5/5.0)

Q1: Overall, this was an excellent course.

Q2: Overall, the instructor was an excellent teacher.

### **Postdoctoral Researchers Supervision**

- 2015-2018 Dr. Feng Zhu, now Professor at China University of Geosciences
- 2010-2012 Dr. Leslie Hayden, now Lab Manager at U.S. Geological Survey, Menlo Park, California
- 2011-2013 Dr. Bin Chen, now Associate Professor at U. Hawaii
- 2004-2005 Dr. Maoshuang Song, now Staff Scientist at Guangzhou Institute of Geochemistry, PR China

### **Graduate Student Supervision**

- 2020- Dongyuan Zhou
- 2019-2020 Chengwei Zhang
- 2018-2020 Allison Pease, M. Sci
- 2018-2020 Yanhan Si
- 2015-2016 Forrest Gilfoy, M.Sc.
- 2014-2015 Tonghui Ming
- 2009-2015 Jiachao Liu, Ph.D.
- 2009-2015 Zeyu Li, Ph.D.
- 2009-2011 Xinyang Chen, M.Sc.
- 2007-2009 Holly Vescogni, M.Sc.
- 2007-2008 Xing Ding (visiting from Guangzhou Institute of Geochemistry, PR China)
- 2004-2010 Lili Gao, Ph.D.
- 2004-2009 Bin Chen, Ph.D.

### **Undergraduate Student Supervision**

- 2017-2018 Cassandra Seltzer (Senior Honor thesis, 04/17/18, Now Ph.D. candidate at MIT)
- 2015-2017 Junjie Dong (Senior Honor thesis, 04/17/17, Now Ph.D. candidate at Harvard)
- 2015-2016 Heather Kirkpatrick (Lab manager, Now Ph.D. candidate at UCLA)
- Supervised more than **30** UROP students and undergraduate hourly research assistants

### **Synergistic activities**

- 2019 Deep Carbon Observatory Webinar on "Earth in Five Reactions"
- 2018 AGU Tutorial talk "Earth in five reactions: What makes our planet unique in the solar system?"
- 2018 Co-convene AGU session "Forms and fluxes of deep carbon in Earth"
- 2017 Co-convene Goldschmidt session "Deep carbon"
- 2017 Lecturer, Winter School "Origin and Evolution of Deep Primordial Reservoirs", Japan
- 2017 Panelist for NextProf Workshop, 05/04/17
- 2014-2016 Partner, Low Temperature and High Pressure (LTHP) Nuclear Resonant Scattering Capability for Geoscience and Condensed Matter Physics Applications at Argonne National Laboratory
- 2014 Participant, "Beyond Habitability: Life and the Early Earth!" workshop jointly organized by NASA, NSF, and Smithsonian Institution, Washington DC
- 2013 Guest lecturer, "History 238 Zoom: A History of Everything", University of Michigan
- 2013 Public viewing of Perseids meteor shower, The Headlands International Dark Sky Park in Michigan
- 2012 Instructor, CIDER (*Cooperative Institute for Dynamic Earth Research*) Summer School, "Deep Time: How did early Earth become our modern world?", Santa Barbara, CA
- 2012 Instructor, Department of Earth and Planetary Sciences, Tokyo Inst. Technology, Japan
- 2012 Instructor, Michigan Math and Science Scholars Program "From Star to Stone"
- 2010 Instructor, CIDER (*Cooperative Institute for Dynamic Earth Research*) Summer School "Water and volatiles in the Earth's Mantle and core", Santa Barbara, CA
- 2009-2010 Partner, Mossbauer Spectroscopy Facility for the High Pressure Community at Argonne National Laboratory
- 2008 Instructor, CIDER (*Cooperative Institute for Dynamic Earth Research*) Summer School, "Boundary layers in the Earth: A multidisciplinary view", Santa Barbara, CA
- 1999-2009 Co-convene AGU sessions

### **Advisors**

- Senior thesis: Dr. Shuguang Li
- PhD: Dr. Carl B Agee, Stein B Jacobsen
- Postdoctoral: Dr. Yingwei Fei, Dr. Ho-kwang (Dave) Mao