

YOUNGHEE KIM

Seoul National University
School of Earth and Environmental Sciences
San 56-1, Shillim-dong, Gwanak-gu
Seoul, 151-742, S. Korea

Phone: +82-2-880-6735
Fax: +82-2-887-0210
Email: younghkim@snu.ac.kr
ykim@ldeo.columbia.edu

EMPLOYMENT

Sep. 1, 2012 – Assistant Professor (Solid Earth Geophysics)
School of Earth and Environmental Sciences, Seoul National University
Aug. 9, 2012 – Adjunct Research Scientist, Lamont-Doherty Earth Observatory of Columbia University
Aug. 10, 2011 – Postdoctoral Research Scientist, Lamont-Doherty Earth Observatory of Columbia University

- Projects: 1. Seismic and Geodetic Imaging of Subducting Terranes Under North America
2. How is Rifting Exhuming the Youngest HP/UHP Rocks on Earth?
- Advisor: Geoffrey A. Abers, *Associate Director of Seismology Division*

2005 – 2011 Research and Teaching Assistant, California Institute of Technology
2004–2005 Pre-Doctoral Fellow, Seoul National University
2002–2004 Research and Teaching Assistant, Seoul National University
2001–2002 Undergraduate Researcher, Physics Division, Lawrence Berkeley National Laboratory
Summer 2000 Undergraduate Teaching Assistant, Department of Physics,
University of California, San Diego
1999–2000 Grader, Department of Mathematics, University of California, San Diego

EDUCATION

Ph.D. Geophysics, California Institute of Technology May 23 2011

- Dissertation: Properties of the Subduction System in Mexico
- Advisor: Robert W. Clayton

M.S. Geophysics, California Institute of Technology June 2008

M.S. Geophysics, Seoul National University, S. Korea

- M.S. Thesis: Estimation of spectral decay parameter and local site effects in southwestern Korea
- Advisor: Chang-Eob Baag

B.A. Physics with a minor in Mathematics, University of California, Berkeley May 2002

- Honors Thesis: ATLAS (A Toroidal LHC Apparatus) Pixels Electronics
- Advisor: James L. Siegrist, *Director of Physics Division, Lawrence Berkeley National Laboratory*
- Transferred from University of California, San Diego June 2000

RESEARCH INTERESTS

The primary goal of my research is to better image the structure of the earth's crust and mantle in order to gain insight into the physical and chemical factors associated with internal geodynamic processes. Questions of particular interest include (i) *the nature of tectonic processes* involved in the buildup and subsequent modification of continental and oceanic lithosphere, and (ii) *the determination of mineral and fluid-phase reactions* in tectonically active regions.

ACADEMIC HONORS AND AWARDS

Jun 2012 IRIS Workshop Scholarship for Postdoctoral Scholar
May 2012 Editors' Highlight & Eos Research Spotlight feature for research published in Geophysical Research Letter
Jun–Jul 2011 Workshop Scholarship, CIDER Summer Program
2010–2011 Anadarko/SEG (Society of Exploration Geophysicist) Scholarship
2010–2011 KUSCO-KSEA Graduate Scholarship for Outstanding Korean Graduate Students in US
Jun 2010 IRIS Workshop Scholarship for Graduate Student

2005–2006	Gutenberg Fellowship for outstanding California Institute of Technology Ph. D. student
2002–2004	Brain Korea 21 Fellowship, granted by Korean Ministry of Education and Human Resources
2003–2004	Seoul National University Tuition Scholarship
2004	Seoul National University Teaching Assistant Fellowship
Spring, Fall 2001	University of California Berkeley Physics Undergraduate Research Scholar Award
1998–2000	Provost's Honors List at University of California, San Diego

PUBLICATIONS

- Kim, Y.,** M. S. Miller, F. D. Pearce, and R. W. Clayton (2012), Seismic imaging of the Cocos plate subduction zone system in central Mexico, *Geochemistry, Geophysics, Geosystems*, **13**, Q07001, doi:10.1029/2012GC004033.
- Kim, Y.,** R. W. Clayton, and J. M. Jackson (2012), Distribution of Hydrous Minerals in the Subduction System beneath Mexico, *Earth and Planetary Science Letters*, 341-344, 58-67, <http://dx.doi.org/10.1016/j.epsl.2012.06.001>.
- Song, T-R, and **Y. Kim** (2012), Localized Seismic Anisotropy associated with Slow Earthquakes beneath Southern Mexico, *Geophys. Res. Lett.*, **39**, L09308, doi:10.1029/2012GL051324.
*Highlighted in *Editors' Highlight & EOS Research Spotlight*.
- Song, T-R, and **Y. Kim** (2012), Anisotropic Uppermost Mantle in Young Subducted Slab underplating Central Mexico, *Nature Geoscience*, **5**, 55-59, doi:10.1038/ngo1342.
- Kim, Y.,** R. W. Clayton, and F. Keppie (2011), Evidence of a collision between the Yucatan Block and Mexico in the Miocene, *Geophys. J. Int.*, **187**, 989-1000, doi: 10.1111/j.1365-246X.2011.05191.x.
- Kim, Y.,** Q. Liu, and J. Tromp (2011), Adjoint Centroid-Moment Tensor Inversions, *Geophys. J. Int.*, **186**, 264-278, doi: 10.1111/j.1365-246X.2011.05027.x.
- Kim, H. J., and **Y. Kim** (2011), A unified transformation function for lower and upper bounding constraints on model parameters in electrical and electromagnetic inversion, *J. Geophys. Eng.*, **8**, 21-26, doi: 10.1088/1742-2132/8/1/004.
- Kim, Y.,** R. W. Clayton, and J. M. Jackson (2010), The geometry and seismic properties of the subducting Cocos plate in central Mexico, *J. Geophys. Res.*, **115**, B06310, doi:10.1029/2009JB006942.
- Pérez-Campos, X., **Y. Kim**, A. Husker, P. M. Davis, R. W. Clayton, A. Iglesias, J. F. Pacheco, S. K. Singh, V. C. Manea, and M. Gurnis (2008), Horizontal subduction and truncation of the Cocos Plate beneath central Mexico, *Geophys. Res. Lett.*, **35**, L18303, doi:10.1029/2008GL035127.

PUBLICATIONS (*in prep.*)

- Kim, Y.,** G. A. Abers, J. Li, D. Christensen, J. Calkins (2012), Seismic imaging of the Alaska subduction zone (tentative title), *in prep.*
- Kim, Y.,** R. W. Clayton, P. Asimow, and J. M. Jackson (2012), Generation of talc from the mantle wedge and its role on the subduction dynamics in central Mexico (tentative title), *in prep.*

TALKS (*Notes: * denotes invited.*)

- CDPapua Workshop, Lamont-Doherty Earth Observatory (May 7, 2012)
- LDEO Postdoctoral Symposium, Lamont-Doherty Earth Observatory (April 5, 2012)
- *SGT/MGG Seminar, Lamont-Doherty Earth Observatory (February 8, 2012)
- *Departmental Seminar, Seoul National University (December 14, 2011)
- Ph.D. Defense Seminar, California Institute of Technology (May 23, 2011).
- Brownbag Seminar, California Institute of Technology (April 13, 2011).
- Seventh Annual Tectonic Observatory Meeting, California Institute of Technology (November 9, 2010).
- *American Geophysical Union Fall Meeting, Foz do Iguassu, Brazil (August 12, 2010).
- *Seismology Seminar, University of California, Los Angeles (February 24, 2010).
- Tectonic Observatory Seminar, California Institute of Technology (February 2, 2010).
- Sixth Annual Tectonic Observatory Meeting, California Institute of Technology (November 4, 2009).
- Brownbag Seminar, California Institute of Technology (February 25, 2009).
- Tectonic Observatory Seminar, California Institute of Technology (June 10, 2008).
- *American Geophysical Union Spring Meeting, Acapulco, Mexico (May 25, 2007).

EarthScope/CIG Workshop Tutorial Session on SPECFEM3D, Washington University (November 1, 2006)
 Ph.D. Qualifying Oral Examination Seminar, California Institute of Technology (September 26, 2006)
 M.S. Defense Seminar, Seoul National University (June 19, 2004)
 M.S. Proposal Seminar, Seoul National University (September 23, 2003)

GRANTS FUNDED

Jul 2012	LDEO Travel Grant through “Leadership Grant Initiative” program
Jul 2012	NSF Conference Travel Grant for “On the Cutting Edge” workshop
Sep 2011	GeoPRISMS Travel Grant for Alaska Primary Site Planning Workshop
Jun 2011	NSF Conference Travel Grant for CIDER workshop
Jun, Oct 2010	California Institute of Technology Conference Travel Grant
Aug 2010	UKC 2010 Travel Grant from Korea-US Science Cooperation Center
Jul 2010	<i>On the Cutting Edge</i> Workshop Travel Grant from NSF
Apr 2004	Brain Korea 21 (Seoul National University) Conference Travel Grant

FIRST AUTHOR PUBLISHED CONFERENCE ABSTRACTS

- Kim, Y.,** G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone and Yakutat/Pacific plate interface in Alaska subduction zone, submitted to 2012 AGU Fall meeting..
- Kim, Y.,** G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone in Alaska subduction zone, Geophysics of Slab Dynamics Workshop, Jeju, S. Korea, Aug. 20-21, 2012.
- Kim, Y.,** R. W. Clayton, J. M. Jackson, Distribution of Hydrous Minerals in the Subduction System beneath Mexico, Geophysics of Slab Dynamics Workshop, Jeju, S. Korea, Aug. 20-21, 2012.
- Kim, Y.,** R. W. Clayton, J. M. Jackson, P. D. Asimow, Distribution of hydrous minerals in the Subduction System beneath Mexico, Abstract DI31A-2166 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Kim, Y.,** R. W. Clayton, J. M. Jackson, Distribution of hydrous minerals in the Cocos oceanic crust inferred from receiver function analysis, Abstract DI31A-1933 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- Kim, Y.,** R. W. Clayton, F. Keppie, Evidence of a Miocene Collision between the Yucatan Block and Mexico, Eos Trans. AGU, 91(26), Jt. Assem. Suppl., Abstract T41C-02, Foz do Iguassu, Brazil, August 8–12, 2010 (INVITED).
- Kim, Y.,** R. W. Clayton, J. M. Jackson, Geometry and seismic properties of the subducting Cocos plate in southern Mexico, Eos Trans. AGU, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract S22A-06, Taipei, Taiwan, June 22-25, 2010.
- Kim, Y.,** R. W. Clayton, J. M. Jackson, The study of geometry and seismic properties of the subducting Cocos plate, Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract T13E-02, San Francisco, CA, December 14–18, 2009.
- Kim, Y.,** R. W. Clayton, Modeling of the seismic response of subducting Cocos plate in Central Mexico, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T23B-2019, San Francisco, CA, December 15–19, 2008.
- Kim, Y.,** Q. Liu, J. Tromp, Southern California Adjoint Moment-tensor Inversions, SCEC Annual Meeting, Proceeding and Abstracts, Volume XVIII, Abstract 2-131, Palm Springs, CA, September 8–10, 2008.
- Kim, Y.,** R. W. Clayton, Modeling of the seismic response of the flat slab in Central Mexico, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract T51B-0541, San Francisco, CA, December 10–14, 2007.
- Kim, Y.,** J. Tromp, Southern California Adjoint Source Inversions, SCEC Annual Meeting, Proceedings And Abstracts, Volume XVII, Palm Springs, CA, September 10–12, 2007.
- Kim, Y.,** R. W. Clayton, F. Greene-Gondi, L. Espejo-Arellano, X. Pérez-Campos, Receiver Function Modeling of the Central Mexico Slab and Comparison to MASE Data, Eos Trans. AGU, 88(52), Spring Meet. Suppl., Abstract T51B-0541, Acapulco, Mexico, May 22–25, 2007 (INVITED).
- Kim, Y.,** F. Greene, L. Espejo, X. Perez-Campos, R. W. Clayton, Receiver Function Analysis of the Middle American Subduction Zone in Central Mexico, Eos Trans. 87(52), AGU, Fall Meet. Suppl., Abstract T13F-06, San Francisco, CA, December 11–15, 2006.

- Kim, Y.**, N.-D. Jo, and C.-E. Baag, Estimation of Site-dependent Spectral Decay Parameters and Local Site Effects in Southwestern Korea, Seismological Society of America, Abstract E704-099, 2004 Annual Meeting, Palm Springs, CA, April 13–17, 2004.

FIRST AUTHOR SCIENTIFIC ABSTRACTS

- Kim, Y.**, G. A. Abers, J. Li, D. Christensen, J. Calkins, Imaging megathrust zone in Alaska subduction zone, IRIS Workshop, Boise, Idaho, June 13–15, 2012.
- Kim, Y.**, G. A. Abers, R. W. Clayton, J. Li, D. Christensen, J. Calkins, Seismic Imaging of the Subduction Systems beneath Mexico and Alaska, GeoPRISMS – EarthScope Planning Workshop for the Alaska Primary Site, Portland, OR, September 22–24, 2011.
- Kim, Y.**, R. W. Clayton, J. M. Jackson, P. D. Asimow, Distribution of Hydrous Minerals in the Subduction System beneath Mexico, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 9–10, 2011.
- Kim, Y.**, R. W. Clayton, J. M. Jackson, P. D. Asimow, Distribution of Hydrous Minerals in the Subduction System beneath Mexico, CIDER 2011 Summer Program, “Dynamics of Mountain Building”, UC Berkeley, CA, June 26–July 16, 2011.
- Kim, Y.**, R. W. Clayton, F. Keppie, Evidence of a Collision between the Yucatan Block and Mexico in the Miocene, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 9–10, 2010.
- Kim, Y.**, R. W. Clayton, J. M. Jackson, Distribution of hydrous minerals in the Cocos oceanic crust inferred from receiver function analysis, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 9–10, 2010.
- Kim, Y.**, R. W. Clayton, The Geometry and Seismic Properties of the Subducting Cocos Plate in Mexico, UKC 2010, Bellevue, Washington, August 13–14, 2010.
- Kim, Y.**, R. W. Clayton, F. Keppie, Evidence of a Miocene Collision between the Yucatan Block and Mexico, IRIS Meeting, Snowbird, Utah, June 9–11, 2010.
- Kim, Y.**, R. W. Clayton, Receiver Function Imaging of Seismic Structure beneath Southern Mexico Using VEOX Data, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 4–5, 2008.
- Kim, Y.**, R. W. Clayton, Flat Slab Subduction at the Middle American Subduction Zone in Central Mexico Determined from Receiver Function Analysis, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 13–14, 2007.
- Kim, Y.**, R. W. Clayton, Receiver Function Analysis of the Middle American Subduction Zone in Central Mexico, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 8–9, 2006.
- Kim, Y.**, Z. Yan, R. W. Clayton, Receiver Function Analysis of the Middle American Subduction Zone in Central Mexico, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 8–9, 2005.

ABSTRACTS (Cont.)

- Clayton, R. W., T. Chen, **Y. Kim**, X. Perez-Campos, Three-dimensional structure of the subduction system in central and southern Mexico, Submitted to 2012 Union Geofisica Mexicana (UGM) meeting.
- Jin, G., J. Gaherty, G. Abers, **Y. Kim**, Z. Elion, R. Buck, R. Varave, Imaging Crust and Mantle Structure beneath the D’Entrecasteaux Islands, Papua New Guinea, from Rayleigh Wave Tomography, Submitted to 2012 Fall AGU meeting.
- Eilon, Z., G. A. Abers, **Y. Kim**, J. B. Gaherty, J. Ge, R. Verave, L. M. Wallace, Seismic Anisotropy and mantle structure beneath the D’Entrecasteaux Islands, Papua New Guinea, Submitted to 2012 Fall AGU meeting.
- Abers, G. A., J. Gaherty, Z. Eilon, **Y. Kim**, J. Ge, R. Verave, Imaging to understand exhumation of UHP rocks during rifting: the 2010–2011 CDPapua seismic experiment, 34th International Geological Congress, Brisbane, Australia, Aug. 5–10, 2012.
- Eilon, Z., **Y. Kim**, G. A. Abers, J. B. Gaherty, J. Ge, R. Verave, L. M. Wallace, Anisotropy beneath the propagating Woodlark rift, Papua New Guinea: a comparison of four shear wave splitting techniques, IRIS Workshop, Boise, Idaho, June 13–15, 2012.
- Song, T.-R., **Y. Kim**, Localized Seismic Anisotropy associated with Long-Term Slow Slip Events beneath Southern Mexico, International Conference on a New Perspective of Great Earthquakes along Subduction Zones, Kochi, Japan, Feb. 28–Mar. 1, 2012.

- Miller, M. S., **Y. Kim**, F. Pearce, R. W. Clayton, Seismic imaging of the Middle America Subduction Zone beneath Mexico, Abstract DI43B-08 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Li, J., G. A. Abers, D. H. Christensen, **Y. Kim**, J. A. Calkins, Preliminary earthquake locations in the Kenai Peninsula from automatic onset estimation of events recorded by the MOOS array, Abstract T33A-2377 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Song, T-R., **Y. Kim**, Anisotropic Mantle Lid in Young Subducted Slab underplating Central Mexico, Abstract SIT002-11, JpGU (Japan Geoscience Union) International Symposium 2011, Chiba-city, Japan, May 22-27, 2011.
- Song, T-R., **Y. Kim**, Anisotropic Mantle Lid in Young Subducted Slab underplating Central Mexico, International Conference on Craton Formation and Destruction, Beijing, China, April 25-29, 2011.
- Song, T-R., **Y. Kim**, Localized Seismic Anisotropy associated with Ultra-Slow Velocity Layer and Slow-Slip Events beneath Central Mexico, Seismological Society of America (SSA) 2011 Annual Meeting, Memphis, Tennessee, April 13-15, 2011.
- Song, T-R., **Y. Kim**, Anisotropic Mantle Lid in Young Subducted Slab underplating Central Mexico, Abstract S21C-2043 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- Pérez-Campos, X., R. W. Clayton, A. Iglesias, T. Chen, **Y. Kim**, D. Melgar-Moctezuma, C. Valdés-González, J. F. Pacheco, VEOX: A New Seismic Line in Mexico to Reveal Cocos Behavior, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T23B-2039, San Francisco, CA, December 15–19, 2008.
- Melgar-Moctezuma, D., X. Pérez-Campos, **Y. Kim**, R. W. Clayton, A. Iglesias, VEOX: Receiver Functions Across the Isthmus of Tehuantepec, Mexico, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T13D-1992, San Francisco, CA, December 15–19, 2008.
- Perez-Campos, X., D. Melgar-Moctezuma, **Y. Kim**, R. W. Clayton, A. Iglesias, VEOX: A glimpse to the seismic structure along the Isthmus of Tehuantepec, Union Geofisica Mexicana (UGM), November, 2008.
- J. Tromp, **Y. Kim**, Southern California Adjoint Source Inversions, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract S51B-0498, San Francisco, CA, December 10–14, 2007.
- Strand, L., **Y. Kim**, J. Tromp, D. Komatitsch, C. Tape, W. Mei, P. Olson, L. Armendariz, and S. Kientz, CIG science gateways: Using supercomputers through a browser, CIG/SPICE/IRIS Computational Seismology Workshop, Jackson, New Hampshire, October 9–11, 2007, 2007.
- Greene-Gondi, F., L. Espejo-Arellano, X. Pérez-Campos, **Y. Kim**, R. W. Clayton, Geometry of Cocos Plate beneath Guerrero using Receiver Functions, Eos Trans. AGU, 88(23), Spring Meet. Suppl., Abstract S43B-02, Acapulco, Mexico, May 22–25, 2007.
- Clayton, R. W., X. Pérez-Campos, P. Davis, A. Iglesias, **Y. Kim**, T. Chen, A. Husker, F. Greene, L. Espejo, L. Ferrari, D. Moran, J. Eiler, M. Gurnis, V. Manea, C. Valdez, J. Stock, V. Kostroglov, MASE: Shallow Subduction in Central Mexico, Tectonic Observatory Meeting, Caltech, Pasadena, CA, November 8–9, 2006.
- Clayton, R. W., X. Pérez-Campos, P. Davis, A. Iglesias, **Y. Kim**, T. Chen, A. Husker, F. Greene, L. Espejo, Seismic Results from the MASE Trans-Mexico Survey, Union Geofisica Mexicana (UGM), November, 2006.
- Clayton, R. W., X. Perez-Campos, A. Husker, A. Iglesias, **Y. Kim**, V. Manea, P. Davis, L. Ferrari, M. Gurnis, V. Kostoglov, D. M. Zentano, S. K. Singh, J. Stock, Flat Slab Subduction in Central Mexico as Determined by the MASE Project, Argentina Meeting, Backbone of America Conference, Mendoza, April 3–7, 2006.

TECHNICAL SKILLS

Computer Skills: Unix/Linux, Windows, FORTRAN, C, Shell, Perl, MATLAB, LaTeX, SAC, GMT

Numerical methods: Numerical algorithms, Finite element, spectral element, and finite difference methods, Inverse theory

Languages: Korean (native), English (read, spoken, written), Japanese (conversational)

TEACHING EXPERIENCES

Sep, 2012 - Geophysics (undergraduate level) at **Seoul National University**

Aug 31, 2010 **Invited Guest Lecturer** on receiver function at **University of Southern California**

- 2007–2009 **Graduate Teaching Assistant, California Institute of Technology**
 Geophysical Data Analysis (Prof. Robert W. Clayton)
 Crustal Geophysics (Prof. Robert W. Clayton)
 Introduction to Earth and Planetary Sciences (Prof. Michael Gurnis, Robert W. Clayton)
- 2003–2004 **Graduate Teaching Assistant, Seoul National University**
 Seismology and Geodynamics (Prof. Chang-Eob Baag)
 Introduction to Earth Sciences (Prof. Chang-Eob Baag)
 Introduction to Geophysics (Prof. Chang-Eob Baag)
- Summer 2000 **Undergraduate Teaching Assistant, Physics Department, University of California, San Diego**
 Physics 1AL, freshmen-level physics course with laboratory exercises

WORKSHOP ATTENDED

- Aug 20-22, 2012 **Geophysics of Slab Dynamics Workshop**, Jeju Island, S. Korea
- July 15-19, 2012 **“On the Cutting Edge” Workshop: Teaching Structural Geology, Geophysics, and Tectonics in the 21st Century**, *University of Tennessee, Knoxville*
(June 27-28, 2012) Review geophysics related collections as an associate editor
- Jun 12-15, 2012 **2012 IRIS Workshop**, Boise, Idaho
- Jun 11, 2012 Large Data in MATLAB: A Seismic Data Processing Case Study Webinar
- Apr 6, 2012 - IRIS webinar series
- Feb 15-May 2012 **Pursuing an Academic Career Virtual Event Series:**
 Learning new ideas for effective teaching and strategies for career planning
- Dec 7, 2011 **GeoPRISMS AGU Mini-Workshop, “ExTerra”**
 Understanding Convergent Margin Processes Through Studies of Exhumed Terranes
- Oct 25, 2011 **WEPAN Professional Development Webinar: Mentoring Millennials**
- Oct 3-6, 2011 **Online Workshop on Mathematics in the Geosciences**
 Characterizing earth system from observations, understanding earth system dynamics, and predicting earth system evolution
- Sep 22–24, 2011 **GeoPRISMS – EarthScope Planning Workshop for Alaska Primary Site**
 Portland, OR
- Jun 26–Jul 16, 2011 **5th CIDER Summer Program, “Dynamics of Mountain Building”**
University of California, Berkeley, Berkeley, CA
- Apr 22–Jun 21, 2011 **Pursuing an Academic Career Virtual Event Series:**
 Faculty Positions: exploring the range of possibilities
 Developing Yourself as a Teacher: Teaching Philosophies, Teaching Styles, and Teaching Statements
- Feb 2–Apr 6, 2011 **Virtual Workshop on “Visualizing Seismic Wave Propagation for Teaching and Research”**
 A hybrid online/face-to-face workshop in the areas of geophysics dealing with earthquakes, earth structure, and seismic wave propagation
- Sep 19–21, 2010 **Negotiating the Ideal Faculty Position Workshop**
 A workshop for Women in Science & Engineering, *Rice University, Houston, TX*
- Sep 15, 2010 **Career Development Workshop: Job Search Process**
California Institute of Technology, Pasadena, CA
- Jul 29–Aug 1, 2010 **Preparing for an Academic Career in the Geosciences Workshop**
Stanford University, Palo Alto, CA
- June 9–11, 2010 **2010 IRIS Workshop**, Snowbird, Utah
- Mar 2–5, 2010 **ExxonMobil Geophysics Short Course: Multi-Disciplinary Subsurface Integration in Exploration and Production from “Plates to Pores”**, Houston, TX

- Oct 31–Nov 2, 2006 **Earthscope/USArray Imaging Science & CIG Seismology Workshop**
Washington University, St. Louis, MO
- May 23–28, 2004 **Ridge 2000 - InterRidge Joint Theoretical Institute Workshop**
Jeju Island, S. Korea

PROFESSIONAL ACTIVITIES

Associations

American Geophysical Union (AGU)
Seismological Society of America (SSA)
Society of Exploration Geophysicists (SEG)
Korean-American Scientists and Engineers Association (KSEA)

Reviewer

National Science Foundation, Geofísica Internacional

Leadership Activities

- Associate editor for reviewing online collection of assignments and activities in geophysics at Teaching Structural Geology, Geophysics, and Tectonics in the 21st Century Workshop (Jun. 27-28 and Jul. 19, 2012)
- Lamont-Doherty Earth Observatory Mentoring Award Committee (Feb. 2, 2012-May 23, 2012)
- Outstanding Student Paper Award Judge for American Geophysical Union (AGU) (Dec. 5, 2011)
- Volunteer for Open House event at Lamont-Doherty Earth Observatory of Columbia University – demonstrating how to make your own earthquakes using seismometers (Oct 1, 2011)
- Special Awards Judge for Society of Exploration Geophysicists (SEG) at Intel International Science and Engineering Fair (ISEF) – selecting projects that display excellence in geophysics and engineering disciplines (May 10-11, 2011)
- Mentoring first-year graduate students in Women Mentoring Women program at Caltech (Sep 2010–Jun 2011)
- Volunteering at Caltech Children's Center – assisting teachers with creating Powerpoint presentations, participating in in/outdoor activities, and helping elementary students with science homework (Sep 2009–Jul 2011)
- Webmaster of toddler class website at Caltech Children's Center (Sep 2009–Jan 2011)
- Co-organizer of Caltech Seismo Lab annual retreat (Mar 2008–May 2008)
- Co-organizer of Caltech Dix Seismo Lab seminars (Sep 2006–Sep 2007)
- Co-organizer of annual Caltech GPS division party, Zilchbrau (Jan 2007–Jun 2007)
- Involved in initial development of the seismology portal (<http://global.shakemovie.princeton.edu/>) and led tutorial sessions at 2006 Earthscope/USArray Imaging Science & CIG Seismology Workshop (<http://epsc.wustl.edu/seismology/michael/CIG/workshop06/>) (Sep 2005–Nov 2006)
- Co-organizer of Caltech GPS division social hours (Jun 2005–Jun 2006)