

Catherine A. Riihimaki

Princeton University

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Education

Keck Foundation Postdoctoral Fellowship, Bryn Mawr College, 2003-2007

Projects: Cirque glacier dynamics, Grinnell Glacier, Montana, and Late-Cenozoic stream incision based on clinker ages, Powder River Basin, Wyoming

Advisor: Don C. Barber

Ph.D. Earth Sciences, University of California, Santa Cruz, 2003

Dissertation: Quantitative Constraints on the Glacial and Fluvial Evolution of Alpine Landscapes

Advisor: Robert S. Anderson

B.A. Geosciences and Mathematics, Williams College, 1998

Summa Cum Laude and Highest Honors

Senior Honors Thesis: Rates of Aggradation and Pedogenesis, Southeastern Puye Quadrangle, New Mexico

Advisor: David P. Dethier

Academic Positions

Associate Director, Science Education, Council on Science and Technology, McGraw Center for Teaching and Learning, Princeton University, 2012-present

Courses developed and taught: Water and the Environment (first-year seminar); labs for Fundamentals of Environmental Studies; The Science and Art of Mapping the World (first-year seminar)

Courses revised: Fundamentals of Environmental Studies; The Environment: Science and Policy; Natural Disasters; The Life Cycle of Behaviors; Climate: Past, Present, and Future; Designing Sustainable Systems; Mathematics for Economics/Life Sciences

Assistant Professor, Biology Department and Environmental Studies and Sustainability Program, Drew University, 2008-2012

Promoted to Associate Professor with Tenure, Spring 2012

Courses developed and taught: Environmental Geology, Geographic Information Systems, Earth's Dynamic Surface, Geology in the Movies, Earth Systems and the Environment

Independent study student: Ciara Perez

Student interns: Zoe Crum, Whitney McClees

Lecturer, Department of Geology, Bryn Mawr College, 2007-2008

Courses taught: Problem Solving in the Environmental Sciences, How the Earth Works laboratory, Earth History laboratory, Earth Systems and the Environment laboratory

Senior thesis student: Anna Mazzariello

Independent study student: Paige Walker

Keck Postdoctoral Fellow, Department of Geology, Bryn Mawr College, 2004-2007

Courses developed and taught: Senior Seminar in Environmental Studies, Problem Solving in the Environmental Sciences, Glaciology and Glacial Geology

Course taught: Earth Systems and the Environment

Senior thesis students: Beth Copeland, Shannon Ulrich, Andrea Cutruzzola, Kaitlin Friedman, Nathaniel Grabman

Visiting Asst. Professor, Department of Geology, Colby College, 2003-2004

Courses taught: Physical Processes of Planet Earth, Geomorphology (with lab)

Courses developed and taught: Geology in the Movies

Principal Geoscience Research Interests

1) Sensitivity of surface processes to climate fluctuations, 2) GIS and numerical modeling of landscape evolution, 3) Real-time measurements of glacial environments, 4) Cosmogenic and thermochronologic constraints on landform ages

Geoscience Research Experience

Glacier National Park, Montana, 2005-present

Real-time measurements of glacier surface velocity using differential GPS

Meteorology station programming, wiring, and installation

Lake-coring to document glacial erosion rates

Numerical modeling of glacier mass balance and glacial erosion

Powder River Basin, Wyoming, 2005-present

(U-Th)/He dating of clinker

Numerical modeling of stream incision and climate change

Lake Tahoe, Nevada and California, 2008-2011

Water quality sampling from stream water column and floodplain

Suspended sediment concentrations and grain-size distribution from water samples

Numerical and GIS modeling of effects of stream restoration projects

Rocky Mountains, Wyoming, Colorado, and Montana, 1998-2011

Cosmogenic radionuclide dating of terraces

Numerical modeling of stream incision and flexural isostasy

Bench Glacier, Alaska, 1999-2002

Real-time measurements of glacier surface velocity using differential GPS and theodolite

Sediment and water discharge measurements

Meteorology station programming and installation

Statistical analysis of glacial and fluvial time-series

Rio Puerco, New Mexico, 1998

NAGT Intern, US Geologic Survey

San Ildefonso Pueblo, New Mexico, 1997

Senior thesis research mapping surficial geology along Rio Grande

Geoscience Research Grants

Keck Geology Consortium, 2010. Total grant \$42,000. For Geomorphologic and paleoenvironmental change in Glacier National Park, Montana. Grant to support fieldwork at Glacier National Park and subsequent labwork for 7 undergraduates. Collaborator: Kelly MacGregor, Macalester College

National Science Foundation, 2010-2012. Total grant \$130,000. For Acquisition of Instrumentation for the Interdisciplinary Drew Sedimentology Facility. Collaborators: Ryan Hinrichs and Maria Masucci, Drew University

NASA, 2010-2013. Total grant \$1,100,000. For The Drew University Environmental Sciences Initiative. Collaborators: Ryan Hinrichs, Drew University

US Forest Service, 2007-2009. Total grant \$111,245; Bryn Mawr share is \$10,000. For Methodology to predict total and fine sediment load reductions as a result of channel restoration in Lake Tahoe streams. Collaborator: Nicole Beck, 2NDNATURE, LLC

National Science Foundation, 2005-2008. Total grant is \$150,000; Bryn Mawr share is \$32,000. For Collaborative Research: Clinker Geochronology and Geomorphic Evolution of the Powder River Basin, Wyoming. Collaborator: Peter Reiners, University of Arizona

American Philosophical Society, 2005. \$4,000 for Glaciology and geomorphology in Glacier National Park: How do cirques form? Collaborator: Kelly MacGregor, Macalester College

Principal Education Research Interests

1) Impact of student-active pedagogies on STEM engagement and learning, 2) The role of institutional culture in shaping teaching decisions, 3) The impact of bridge programs on STEM engagement and retention

Education Research Experience

Princeton University Physics 103/104 Experiment, 2013-present

One-on-one interviews with students after taking ISLE-based section of intro physics

Analysis of pre- and post-semester survey data from the class

Princeton University Freshman Scholars Institute, 2013-present

One-on-one interviews with students during and after summer bridge program before their freshman year

Classroom observations using the COPUS protocol

Analysis of survey data from the summer term

Publications (*undergraduate author)

Sewall, J. O., **Riihimaki, C. A.**, and Kadegis, J.* (in review), Orbital control, climate seasonality, and landscape evolution in the Quaternary Rocky Mountains, *Geology*.

Lawrence, K. T., Sigman, D. M., Herbert, T. D., **Riihimaki, C. A.**, Bolton, C. T., Martinez-Garcia, A., Rosell-Mele, A. and Haug, G. H. (2013), Time-transgressive North Atlantic productivity changes upon Northern Hemisphere glaciation, *Paleoceanography*, 28, 740–751, doi:10.1002/2013PA002546.

Riihimaki, C. A., and Reiners, P. W. (2012), Deducing the fingerprints of climate change in long-term landscape evolution, *Journal of Geophysical Research, Earth Surface*, 117, F02007, doi:10.1029/2011JF002137.

Foster, D., Brocklehurst, S., MacGregor, K., and **Riihimaki, C. A.** (in review), Glacial valley longitudinal profile evolution under rock uplift: insights from numerical modelling, *Earth Surface Processes and Landforms*.

Reiners, P. W., **Riihimaki, C. A.**, and Heffern, E. L. (2011), Clinker geochronology and landscape evolution of the Powder River Basin, *GSA Today*, 21, 4-9, doi:10.1130/G107A.1.

MacGregor, K. R., **Riihimaki, C. A.**, Myrbo, A., Shapley, M. D., and Jankowski, K.* (2011), Geomorphic and climatic change over the past 12,900 years at Swiftcurrent Lake, Glacier National Park, Montana, *Quaternary Research*, 75, doi:10.1016/j.yqres.2010.08.005.

Riihimaki, C. A., Reiners, P. W., and Heffern, E. L. (2009), Quaternary coal fires correlate with climate fluctuations, Powder River basin, Wyoming and Montana, *Geology*, 37, 255-258.

Riihimaki, C. A., and Libarkin, J. C. (2007), Terrestrial cosmogenic nuclides as paleoaltimetric proxies, *Reviews in Mineralogy and Geochemistry*, 66, 269-278.

Riihimaki, C. A., Anderson, R. S., and Safran, E. B. (2007), Impact of rock uplift on rates of late Cenozoic Rocky Mountain river incision, *Journal of Geophysical Research, Earth Surface*, 112, F03S02, doi:10.1029/2006JF000557.

Riihimaki, C. A., Anderson, R. S., Safran, E. B., Dethier, D. P., Finkel, R. C., and Bierman, P. R. (2006), Longevity and progressive abandonment of the Rocky Flats surface, Front Range, Colorado, *Geomorphology*, 78, 265-278.

Stock, G. S., **Riihimaki, C. A.**, and Anderson, R. S. (2006), Age constraints on cave development and landscape evolution in the Bighorn Basin of Wyoming, USA, *Journal of Cave and Karst Studies*, 68, 76-84.

Anderson, R. S., **Riihimaki, C. A.**, Safran, E. B., and MacGregor, K. R. (2006), Facing reality: Late Cenozoic evolution of smooth peaks, glacially ornamented valleys and deep river gorges of Colorado's Front Range, *GSA Special Paper 398*, 397-418.

Riihimaki, C. A., MacGregor, K. R., Anderson, R. S., Anderson, S. P., and Loso, M. G. (2005), Sediment evacuation and glacial erosion rates at a small alpine glacier, *Journal of Geophysical Research, Earth Surface*, 110, F03003, doi:10.1029/2004JF000189.

MacGregor, K. R., **Riihimaki, C. A.**, and Anderson, R. S. (2005), Spatial and temporal evolution of sliding velocity on a small alpine glacier: Bench Glacier, Alaska 1999 and 2000, *Journal of Glaciology*, 51, 49-63.

Anderson, R. S., Anderson, S. P., MacGregor, K. R., Waddington, E. D., O'Neel, S., **Riihimaki, C. A.**, and Loso, M. G. (2004), Self-defeating unsteady sliding of an alpine glacier, *Journal of Geophysical Research, Earth Surface*, 109, F03005, doi:10.1029/2004JF000120.

Manuscripts in Preparation (*undergraduate author)

Schachtman, N., MacGregor, K. R., Myrbo, A., Hencir, N. R., **Riihimaki, C. A.**, Thole, J., Bradtmiller, L. I., Lake core record of Grinnell Glacier dynamics during the Late Pleistocene and Younger Dryas, Glacier National Park, Montana, U.S.A., *Quaternary Research*.

Anderson, H.* , MacGregor, K. R., Oddo, P.* , **Riihimaki, C. A.**, Myrbo, A., Williams, C. Gradual versus catastrophic environmental change in eastern Glacier National Park, Montana, USA, *Geology*.

Meeting Abstracts (*undergraduate author)

Riihimaki, C. A., Caylor, K. K., and Wilcove, D. S. (2014), Planetary boundaries and environmental citizenship: enhancing environmental science through the Princeton University Science and Engineering Education Initiative, *American Geophysical Union, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A., Schwalm, J. A., Sealfon, C. D., and Leonard, N. E. (2013), Lessons from the Princeton Science and Engineering Education Initiative: assessing science and technology literacy across the campus, *Geological Society of America, Fall National*

Riihimaki, C. A., Sealfon, C. D., Paine, E. N., and Bassler, B. L. (2013), Princeton Science and Engineering Education Initiative: Creating Scientifically Literate Students Across the Campus, *American Association for the Advancement of Science Annual Meeting, Abstracts with Program*.

Riihimaki, C. A., Sealfon, C. D., Paine, E. N., O'Donnell, F. C., Caylor, K. K., and Wilcove, D. S. (2012), Princeton Science and Engineering Education Initiative: Revising Undergraduate Environmental Science Courses, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Riihimaki, C. A., Sewall, J., Kadegis, J.*, and Reiners, P. W. (2011), Modeling the connection between orbital parameters, precipitation, and landscape evolution in the Rocky Mountains, USA, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Lawrence, K. T., Sigman, D. M., Herbert, T., **Riihimaki, C. A.**, Martinez Garcia, A., Rosell, A., Haug, G. H. (2011), Bi-Hemispheric Changes in Westerly Winds Helped Drive Plio-Pleistocene Productivity Changes, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Riihimaki, C. A., MacGregor, K., Myrbo, A., Bradtmiller, L., Brady, K., Oddo, P. C.*, and Griffith, J.* (2011), Undergraduate lacustrine research focusing on environmental change at Glacier National Park, Montana, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A. (2011), Using GIS to teach natural disasters (and vice versa) to non-geology students, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

MacGregor, K., Kutvirt, J.*, Myrbo, A., **Riihimaki, C. A.**, Brady, K., and Locatelli, E. R.* (2011), A 13,000 yr fire history at Swiftcurrent Lake, Glacier National Park, Montana, USA, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Locatelli, E. R.*, Bradtmiller, L., Myrbo, A., MacGregor, K., Kutvirt, J.*, **Riihimaki, C. A.**, Brady, K., and (2011), Vegetation history of the late Holocene in east Glacier National Park, Montana: a paleoenvironmental study, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Kadegis, J.*, Sewall, J., and **Riihimaki, C. A.** (2011), Orbital eccentricity, clinker formation, and the climate-landscape evolution link in the North American Rockies and High Plains, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A., and Gasparini, N. M. (2010), Transience beyond the catchment: large-scale evolution of the Hawaiian landscape, *Fall American Geophysical Union Meeting, Abstracts with Program*.

MacGregor, K. R., **Riihimaki, C. A.**, Myrbo, A., Brady, K., and Bradtmiller, L. (2010), Geomorphologic and paleoenvironmental change in the Many Glacier region, Glacier National Park, MT, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A. (2009), Is dynamic topography driving landscape evolution in central Rocky Mountains? *Fall American Geophysical Union Meeting, Abstracts with Program*, Invited talk.

Riihimaki, C. A., Reiners, P. W., and Heffern, E. L. (2009), Deducing climate signals in Quaternary landscape evolution in the central Rocky Mountains, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Mitchell, S. G., and **Riihimaki, C. A.** (2009), Goals and challenges of establishing a successful geoscience curriculum in a biology department, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A., Reiners, P. W., and Heffern, E. L. (2008), Evidence for climatic control on Quaternary landscape evolution in the central Rocky Mountains, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Reiners, P. W., **Riihimaki, C. A.**, and Heffern, E. L. (2008), Landscape evolution from shallow exposure/weathering ages: Examples from clinker geochronology, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Riihimaki, C. A., Reiners, P. W., and Heffern, E. L. (2007), Rates of Late Cenozoic landscape evolution constrained by (U-Th)/He dating of clinker, Powder River basin, Wyoming and Montana, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

MacGregor, K. R., **Riihimaki, C. A.**, Myrbo, A., Dunn, E.*, and Jankowski, K.* (2007), Geomorphic and climatic controls on Holocene sedimentation in two proglacial lakes: Swiftcurrent Lake and Lake Josephine, Glacier National Park, Montana, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A., Anderson, R. S., and Safran, E. B. (2006), Modeling the impact of epeirogenic rock uplift on late Cenozoic river incision in the central Rocky Mountains, *Fall American Geophysical Union Meeting, Abstracts with Program*, Invited talk.

Jones, L. C.*, **Riihimaki, C. A.**, MacGregor, K. R., Jankowski, K. L.*, Myrbo, A., and Shapley, M. (2006), Coulometric analysis of a sediment core from Swiftcurrent Lake, Glacier National Park, Montana, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Jankowski, K. L.*, MacGregor, K. R., **Riihimaki, C. A.**, Myrbo, A. E., and Shapley, M. (2006), Preliminary limnogeological characterization of glacial erosion and environmental change from sediment cores, Swiftcurrent Lake, Glacier National Park, Montana, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Libarkin, J. C., **Riihimaki, C. A.**, and Farley, K. (2006), Terrestrial cosmogenic nuclides as paleoaltimeters: new approaches and future potential, *Goldschmidt Conference*.

Riihimaki, C. A., and MacGregor, K. R. (2005), Source-to-sink study of erosion at Grinnell Glacier, Glacier National Park, Montana, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Safran, E. B., Anderson, R. S., **Riihimaki, C. A.**, and Armstrong, J.* (2005), Longitudinal stream profile morphology and patterns of knickpoint propagation in the Bighorn Range, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Riihimaki, C. A., Anderson, R. S., and Safran, E. B. (2004), Testing the impact of late Cenozoic rock uplift on the topography of the Rocky Mountains, *Geological Society of America, Fall National Meeting, Abstracts with Program*, Invited talk.

Riihimaki, C. A., MacGregor, K. R., Anderson, R. S., Anderson, S. P., and Loso, M. G. (2003), Interpretation of fine and coarse sediment yield from Bench Glacier, Alaska, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Anderson, R. S., **Riihimaki, C. A.**, and Safran, E. B. (2003), A numerical sketch of late Cenozoic evolution of the Front Range, Colorado, *Geological Society of America, Fall National Meeting, Abstracts with Program*.

Riihimaki, C. A., Anderson, R. S., and Safran, E. B. (2002), Age and Mechanics of Formation of the Rocky Flats and Analogous Surfaces Bounding Laramide Ranges in Northern Colorado and Wyoming, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Safran, E. B., Zellers, N. A.*, Anderson, R. S., Gilbert, G. J.*, and **Riihimaki, C. A.**, (2002), Interpreting Longitudinal Stream Profile Morphology in the Laramide Ranges, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Riihimaki, C. A., Anderson, R. S., and Safran, E. B. (2002), Morphology of the Granite Mountains, Wyoming, as an Analogue for Pre-exhumation Laramide Ranges, *Geological Society of America, Fall National Meeting, Abstracts with Programs*.

Anderson, R. S., **Riihimaki, C. A.**, Safran, E. B., and Stock, G. M. (2002), Late Cenozoic Glacial and Fluvial Incision of Laramide Ranges, *Geological Society of America, Fall National Meeting, Abstracts with Programs*.

Safran, E. B., Gilbert, G. J.*, Anderson, R. S., **Riihimaki, C. A.**, and Zellers, N. A.* (2002), Laramide Range Morphology and Geomorphic Implications, *Geological Society of America, Fall National Meeting, Abstracts with Programs*.

Riihimaki, C. A., Anderson, R. S., and Safran, E. B. (2001), Modeling of Non-Uniform, Late Cenozoic Exhumation of the Laramide Landscape Using Proposed Geophysical and Climatic Forcing Mechanisms, *Fall American Geophysical Union Meeting, Abstracts with Program*.

Riihimaki, C. A., MacGregor, K. R., Anderson, R. S., and Anderson, S. P. (2000), Fine and Coarse Sediment Evacuation and Subglacial Channel Network Evolution at the Bench Glacier, Chugach Range, Alaska, *Geological Society of America, Fall National Meeting, Abstracts with Programs*.

MacGregor, K. R., **Riihimaki, C. A.**, Anderson, R. S., Anderson, S. P., and Waddington, E. D. (2000), Developing a Linked Glaciological and Hydrological Data Set to Understand Valley-Scale Subglacial Erosion over Glacial-Interglacial Cycles, *Geological Society of America, Fall National Meeting, Abstracts with Programs*.

Riihimaki, C. A., MacGregor, K. R., Anderson, R. S., and Anderson, S. P. (1999), Sediment yield of the Bench Glacier, Alaska, during the 1999 melt season, *Fall American Geophysical Union Meeting, Abstracts with Programs*, 80, F426-F427.

MacGregor, K. R., Anderson, R. S., Anderson, S. P. **Riihimaki, C. A.**, and Harper, J. T. (1999), Spatial and temporal ice velocities and implications for subglacial erosion: Bench Glacier, Alaska. *Fall American Geophysical Union Meeting, Abstracts with Programs*, 80, F426.

Riihimaki, C. A.,* and Dethier, D.P. (1998), Rates of Holocene aggradation and pedogenesis, southeastern Puye Quadrangle, New Mexico, *Geological Society of America, Northeastern Section, 33rd Annual Meeting, Abstracts with Programs*, 30, 70.

Professional Development Workshops

2013 Summit on the Future of Undergraduate Geoscience Education

2010 On the Cutting Edge: Using GIS and Remote Sensing to Teach Geoscience in the 21st Century

2008 On the Cutting Edge: Teaching Geomorphology in the 21st Century

Submitted assignment rated “exemplary” by peer review

2005 On the Cutting Edge: Preparing for an Academic Career in the Geosciences

2005 Math-Science Partnership of Greater Philadelphia: Formative Assessment

Invited Lectures

2011 Geology Department, University of Delaware

2011 Department of Earth and Environmental Sciences, Tulane University

2010 2nd Nature, LLC, Santa Cruz, CA

2008 Department of Geology and Environmental Geosciences, Lafayette College

2008 Department of Geology and Geophysics, University of Minnesota

2008 Biology Department, Drew University

2008 Department of Earth Sciences, Dartmouth College

2008 Natural Sciences Department, Bentley College

2007 Paleogeometry Short-course, Geological Society of America Annual Meeting

2007 Department of Earth and Environmental Sciences, Vanderbilt University

2007 Geosciences Department, Earlham College

2006 Philadelphia Mineralogical Society

2006 Department of Earth and Environmental Science, University of Pennsylvania

2006 Department of Geology and Environmental Geosciences, Lafayette College

2005 Geology Department, University of Delaware

2005 Center for Science in Society, Bryn Mawr College

2004 Geology Department, Bryn Mawr College

2003 Geology Department, Colby College

Honors

2004-2007 Keck Foundation Postdoctoral Fellowship, Bryn Mawr College
1999-2002 NSF Graduate Fellowship, UC-Santa Cruz
1998-1999 University of California Regents Fellowship
1998 Highest Honors, Department of Geosciences Williams College
1998 Phi Beta Kappa
1998 Freeman Foote Award, Best Thesis Presentation, Department of Geosciences Williams College
1998 National Association of Geosciences Teachers Student Fellowship
1997 Council on Undergraduate Research Summer Research Fellowship

Service

Panelist, National Science Foundation, Geomorphology and Land Use Dynamics, 2014
Representative, Council of the Princeton University Community, 2013-2014
Reviewer, National Science Foundation, NASA, Journal of Geophysical Research-Earth Surface, Canada Foundation for Innovation, Geochimica et Cosmochimica Acta, Petroleum Research Fund, 2006-present
Representative, Admissions and Financial Aid Advisory Committee, Drew University, 2011-2012
Representative, University Budget Committee, Drew University, 2011-2012
Representative, Strategic Planning Working Group 2, Drew University, 2011
Representative, Banner Implementation Advisory Group, Drew University, 2011
Representative, Honors Committee, Drew University, 2010-2011
Representative, Science Building Advisory Committee, Drew University, 2010-2012
Faculty Advisor, Drew Environmental Action League (DEAL), Drew University, 2009-2012
Representative, Academic Computing Advisory Committee, Drew University, 2009-2011
Co-leader, Sustainability Committee, Drew University, 2009-2012
Representative, Quantitative Literacy Working Group, Drew University, 2009
Associate Editor, Lithosphere, Geological Society of America, 2008-2012
Co-leader, Undergraduate field trip to Hawaii, Bryn Mawr College, 2007
Leader, Undergraduate field trip to Santa Cruz, CA, Bryn Mawr College, 2006
Co-chair, Topical Session, American Geophysical Union, Fall National Meeting, 2006
Faculty representative, Environmental Studies Steering Committee, Bryn Mawr College, 2005-2008
Co-organizer and participant, Math-Science Partnership of Greater Philadelphia, 2005-2008
Representative, Science Computer Committee, Bryn Mawr College, 2005-2008
Co-leader, Undergraduate field trip to San Salvador, Bahamas, Bryn Mawr College, 2005
Co-organizer, Tri-College Mellon Modeling Group, Bryn Mawr College, 2004
Co-leader, Undergraduate field trip to Canadian Rockies, Bryn Mawr College, 2004
Co-chair, Topical Session, Geological Society of America, Fall National Meeting, 2002
Graduate Student Representative, Earth Sciences Department, University of California, Santa Cruz, 2001-2003

Professional Affiliations

American Geophysical Union, Geological Society of America, Sigma Xi, American Educational Research Association