

KARIN L. RILEY

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EDUCATION

Ph.D. Geosciences, University of Montana, Missoula. Degree expected Spring 2010. Supervised by Dr. Rebecca Bendick and Dr. Anna Klene. *Dissertation title:* “Innovations in wildfire severity assessment: from sub-pixel to landscape scale in self-organized critical systems.”

M.S. Environmental Systems and International Development Technology, Humboldt State University, Arcata, California, August 2001. Supervised by Dr. Robert Gearheart. *Thesis title:* “Forest, Fire, Home: Experiences with Wildfire in the Klamath Mountains of Northern California.”

A.B. Earth and Planetary Science, Geological Option, Harvard University, Cambridge, Massachusetts. June 1996. *Cum laude.*

Visiting Student, Friends World College, South Asian Center, Bangalore, INDIA, Spring 2004.

RESEARCH EXPERIENCE

Doctoral Research, UM, 9/2003-present

Kinematic GPS collection of post-fire debris flow perimeters. In-situ collection and analysis of spectral signatures of post-fire materials in recently burned areas using field spectroradiometer. Evaluation of burn severity algorithms. Assessment of magnitude and frequency of fire severity patches and post-fire debris flow events.

Research Assistant, National Center for Landscape Fire Analysis, Missoula, 9/2003-7/2004

Researched institutional structure of wildfire management in the United States and information transfer between organizations.

Masters Research, HSU, 9/1998-9/2001

Narrative analysis of mass media publications on wildfire. Interviewed local and indigenous people of the Klamath Mountains in northern California regarding their traditional ecological knowledge of wildfire behavior and applications of fire for ecosystem management.

TEACHING EXPERIENCE

Lecturer, Department of Geoscience, University of Montana. Taught Geoscience 100: General Geology lecture with 164 students. Supervised 13 sections taught by teaching assistants of Geology 101: General Geology Lab.

Head Teaching Assistant, Department of Geoscience, University of Montana, 8/2006-5/2007 and 1/2008-5/2008. Supervised seven other TAs. Assisted professors with curriculum development. Taught General Geology Laboratory courses.

Teaching Assistant, Department of Geology, University of Montana, 1/2004-5/2006.

Taught General Geology Laboratory course and assisted with History of Life course. Wrote and delivered lectures, assisted students with labs, wrote exams, graded lab write-ups and exams.

PUBLICATIONS

- Riley, Karin, Rebecca Bendick, Ulrich Kamp, and Anna Klene. 2007. Initial results comparing spectral signatures of post-fire materials, western Montana. *Poster presented at University of Montana Faculty and Graduate Student Conference, April 14, 2007.*
- Riley, Karin, Rebecca Bendick, Ulrich Kamp, and Anna Klene. 2006. Initial results comparing spectral signatures of post-fire materials, western Montana. Abstract T22C-05. *Eos Transactions, American Geophysical Union Fall Meeting Supplement*, San Francisco, California: December 11-15, 2006.
- Sears, James W., Jason Braden, Jason Edwards, Emily Geraghty, Frank Janiszewski, Michael McInenly, John McLean, Karin Riley, Edward Salmon. 2005. Rocky Mountain Foothills Triangle Zone, Sun River, Northwest Montana. *Northwest Geology*, 34(45).
- Trudel, Chris, Curtice Jacoby, Karin Riley-Thron, Per Tillisch. 2002. Ecological assessment of potential wilderness areas in the Klamath-Siskiyou region of north western California. <<http://www.legacy-tlc.org/reports.html>>. *Report funded by World Wildlife Fund, Klamath-Siskiyou Program, Dr. Dominick Dellasala, Ashland, Oregon.*
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ACADEMIC SERVICE

- Secretary, Graduate Student Association, UM (2005-2006)
 - Representative, Graduate Student Association, UM (2004-2005)
 - Board Member, Harvard Buddhist Community (1995-1996)
 - Director, Tibet Action Committee, Harvard (1995-1996)
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PROFESSIONAL AFFILIATIONS

- Geological Society of America
 - American Geophysical Union
 - Association for Fire Ecology
 - Geological Society of America
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SCHOLARSHIPS, FELLOWSHIPS & GRANTS

- Transboundary Research Award, University of Montana, 2008
- Geological Society of America Graduate Student Research Grant, 2008
- Jerry O'Neal National Park Service Student Fellowship, 2008
- Clancy Gordon Environmental Scholarship, University of Montana, 2007-2008.
- Bertha Morton Fellowship, University of Montana, 2007-2008.
- Student Travel Award, Fall 2006, University of Montana Graduate School.
- Out-of-State Tuition Fee Waiver Scholarship, Fall 1998, Humboldt State University.