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EDUCATION

Ph.D. Atmospheric Sciences, University of Washington, *expected* 2013.

Advisor: Gerard Roe

M.S. Geological Sciences, University of Colorado, 2005.

Thesis: Crustal deformation across the Himalaya of eastern and central Nepal.

Advisor: Roger Bilham

B.S. Geological Sciences, *Summa Cum Laude*, University of North Carolina at Chapel Hill, 2002.

Thesis: Cretaceous-Tertiary impact deformation features at Moscow Landing, Alabama.

Advisor: Kevin Stewart

PROFESSIONAL EXPERIENCE

University of Washington, Department of Atmospheric Sciences

Research Assistant, Gerard Roe, September 2007–Present.

UNAVCO, Boulder, Colorado

Geodetic Engineer, Frederick Blume, June 2005–June 2007.

Installed, performed maintenance and troubleshooting, and provided field and equipment support for GPS (Global Positioning System) campaigns and continuous stations in the United States and internationally.

Managed construction of the Rio Grande Rift GPS network, including installing 25 continuous GPS stations, designing electronics enclosure and power system, and coordinating fieldwork.

Maintained project websites, created outreach materials, and generated documentation for use of GPS equipment by the scientific community.

University of Colorado, Department of Geological Sciences

Research Assistant, Roger Bilham, June 2003–June 2005.

Processed and analyzed GPS data to evaluate crustal deformation and seismic hazard in the Himalaya. Used Bernese 4.2 processing software.

Planned and conducted GPS field projects in Pakistan, Bhutan, Nepal, and India.

University of Alaska, Geophysical Institute

NSF Research Experiences for Undergraduates Intern, Jeffrey Freymueller, Summer 2001.

Conducted numerical modeling of seismic slip along the Aleutian Megathrust.

University of Minnesota, St. Anthony Falls Laboratory

NSF Research Experiences for Undergraduates Intern, Chris Paola and Tom Hickson, Summer 2000.

Investigated the formation of turbidite sequences through physical sedimentology experiments.

University of North Carolina at Chapel Hill, Ancient World Mapping Center

Geographic Information System (GIS) Technician, Tom Elliott, 2000-2002.

Produced custom maps of the classical Greek and Roman worlds for textbooks, peer-reviewed journal articles, and university courses. Used ESRI ArcInfo and ArcView software products.

PUBLISHED WORK

Feldl, N., and G. H. Roe (2011), Climate variability and the shape of daily precipitation: A case study of ENSO and the American West, *Journal of Climate*, 24, 2483-2499.

Feldl, N., and G. H. Roe (2010), Synoptic weather patterns associated with intense ENSO rainfall in the southwest United States, *Geophysical Research Letters*, 37, L23803.

Feldl, N., and R. Bilham (2006), Great Himalayan earthquakes and the Tibetan Plateau, *Nature*, 444, 165-170.

Feldl, N. (2005), Crustal Deformation Across the Himalaya of Eastern and Central Nepal, M.S. Thesis, University of Colorado.

Bilham, R., E.R. Engdahl, N. Feldl, and S.P. Satyabala (2005), Partial and Complete Rupture of the Indo-Andaman Plate Boundary 1847-2004, *Seismological Research Letters*, 76, 299-311.

Hough, S.E., R. Bilham, N. Ambraseys, and N. Feldl (2005), The 1905 Kangra and Dehra Dun earthquakes, *Geological Survey of India Special Publications*, 85, 15-22.

Hough, S.E., R. Bilham, N. Ambraseys, and N. Feldl (2005), Revisiting the 1897 Shillong and 1905 Kangra earthquakes in northern India: Site response, Moho reflections and a triggered earthquake, *Current Science*, 88 (10), 1632-1638.

TEACHING EXPERIENCE

Undergraduate Courses at the University of Washington

Instructor/Predoctoral Teaching Associate, Weather (ATMS 101, 5 credits), Summer 2011.

Prepared and presented lectures five times per week for 9-week session to class of 15 students, prepared, administered, and graded tests and homework assignments, held office hours, maintained course website.

Teaching Assistant, Climate and Climate Change (ATMS 211), Richard Gammon, Spring 2010.

Taught twice weekly discussion section, created and graded homework assignments and examinations, occasionally served as guest lecturer to the class (90 students), designed and maintained course website, held office hours.

Teaching Assistant, The Earth System and Climate (ESS 201), Gerard Roe, Winter 2009.

Assisted in weekly laboratory section, created and graded homework assignments, lab exercises, and examinations, occasionally served as guest lecturer to the class (45 students), designed and maintained course website, held office hours.

Undergraduate Courses at the University of Colorado

Teaching Assistant, Introduction to Geology Laboratory (GEOL 1030), Alan Lester, Fall 2002–Spring 2003.

Taught twice weekly laboratory section (25 students), led seven field trips per semester, created and graded lab assignments and examinations.

SELECTED PRESENTATIONS

Talks

Do feedbacks work for regional climate predictability?, 4th Graduate Climate Conference, University of Washington Pack Forest Conference Center, 2010.

Circulation variability and intense precipitation: A case study of ENSO and the American West, Pacific Northwest Weather Workshop, NOAA, Seattle, 2010.

Circulation variability and the shape of daily precipitation, University of Washington Atmospheric and Climate Dynamics Seminar, 2010 (COGS exam).

The shape of daily precipitation in the American West as a function of ENSO, Advanced Climate Dynamics Course, Bergen, Norway, 2009.

The shape of daily precipitation in the American West as a function of ENSO, 3rd Graduate Climate Conference, University of Washington Pack Forest Conference Center, 2009.

Posters

Feldl, N., and G. H. Roe (2011), Reengineering climate sensitivity, AGU Fall Meeting, Abstract A31D-0110.

Feldl, N., and G. H. Roe (2011), Reengineering climate sensitivity, World Climate Research Programme Open Science Conference, Denver, Colorado.

Feldl, N., and G. H. Roe (2009), Intense precipitation events during La Niña in the southwestern United States, *Eos. Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract A11A-0083.

Bendick, R., R. Bilham, N. Feldl, S.F. Khan, and M.A. Khan (2006), Geodetic Constraints and Tectonic Implications of the Mw = 7.6, 8 October 2005, Kashmir Earthquake, SSA Annual Meeting.

Bilham, R., and N. Feldl (2005), Unprecedented Massive earthquakes in the Himalaya driven by Elastic Strain stored within the Tibetan Plateau?, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T32B-02 INVITED.

Blume, F., and N. Feldl (2005), Support of EarthScope GPS Campaigns at the UNAVCO Facility, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract G21B-1270.

Johnson, D.J., K. Creager, A. Wech, R. Bennett, F. Blume, and N. Feldl (2005), Stalking the September 2005 Cascadia Episodic Tremor and Slip event: Results from a Dense GPS Deployment, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract G51B-0831.

PROFESSIONAL ACTIVITIES

Memberships

University of Washington Program on Climate Change, 2007–Present.

American Geophysical Union, 2002–Present.

Peer Review

Reviewer for *Journal of Climate*.

Referee for NOAA Climate Program Office.

Departmental Committees

Graduate representative to faculty hiring committee committee, 2012.

Reviewed applications, organized graduate-student interviews with candidates, presented results to voting faculty in Departments of Atmospheric Sciences and Civil and Environmental Engineering.

Co-organizer, Graduate Student Distinguished Visiting Lecturer series, 2011-present.

Graduate Climate Conference abstract committee, 2009.

HONORS, AWARDS, & FELLOWSHIPS

Outstanding Poster Presentation, World Climate Research Programme Open Science Conference, 2011.

Graduate School Fund for Excellence and Innovation Travel Grant, University of Washington, 2009.

Graduate and Professional Student Senate Travel Grant, University of Washington, 2009.

Participant, Advanced Climate Dynamics Course, Bergen, Norway, 2009.

Achievement Rewards for College Scientists (ARCS) Fellowship, Seattle Chapter, 2007-2009.

Outstanding Woman Geoscience Student Award, Association for Women Geoscientists, Denver Chapter, 2005.

Longley, Warner, & Wahlstrom Fellowship Award, University of Colorado, 2004.

Op White Award in Geology, University of North Carolina at Chapel Hill, 2002.

Summa Cum Laude, University of North Carolina at Chapel Hill, 2002.

Phi Beta Kappa, University of North Carolina at Chapel Hill, 2002.

Last updated: January 17, 2012