

## CURRICULUM VITAE

**NAME:** Jennifer J. Follstad Shah

### **EDUCATION:**

Ph.D.; Biology: University of New Mexico, Albuquerque, 2006

B.A.; Political Science / French: University of Wisconsin-Madison, Madison, 1995

Certificate of Political Studies: Institut d'Études Politiques, Aix-en-Provence, France, 1994

**RESEARCH INTERESTS:** Effects of river regulation and plant invasion on riparian biogeochemical cycling, river and riparian restoration, metabolic scaling theory and its application to stream ecology

### **RESEARCH AND PROFESSIONAL EXPERIENCE / AFFILIATIONS:**

2007-Present National Science Foundation Bioinformatics Postdoctoral Fellow, Duke University, Durham, NC. *Advisor:* Dr. Emily Bernhardt

2000-2006 IGERT Freshwater Sciences Interdisciplinary Doctoral Program Fellow / Graduate Student, University of New Mexico, Albuquerque, NM. *Major advisor:* Dr. Cliff Dahm

1999 Research Assistant, Wisconsin River Floodplain Project Center for Limnology, University of Wisconsin-Madison, Madison, WI. *Primary investigators:* Drs. Emily Stanley (Center for Limnology) and Monica Turner (Department of Zoology)

1996-1998 Executive Director, Wisconsin Environmental Initiative, Madison, WI

### **RESEARCH WORKING GROUPS:**

2006-Present The Metabolic Theory of Ecology and Stream Ecosystems, Working Group Co-organizer, Long Term Ecological Research (LTER) Network

2006-Present Effects of Nitrogen-Fixers on Plant Community Diversity and Species Interactions, Working Group Co-organizer, LTER Network

2002-2005 National River Restoration Science Synthesis (NRRSS) Project, Working Group Participant, National Center for Ecological Analysis and Synthesis  
<http://www.restoringrivers.org>

### **AWARDS AND FELLOWSHIPS:**

- NSF Bioinformatics Postdoctoral Fellowship (2007-2009)
- Best Graduate Student Oral Presentation from the Soil Ecology Society (2005)
- EPA Graduate Research Opportunities Doctoral Fellowship (2003-2006)
- NSF IGERT Freshwater Sciences Interdisciplinary Doctoral Fellowship (2000-2002)

## PROFESSIONAL AFFILIATIONS:

- American Society for Limnology and Oceanography
- Ecological Society of America
- North American Benthological Society

## PUBLICATIONS:

1. R.L. Sinsabaugh and **J.J. Follstad Shah**. Integrating resource utilization and temperature in metabolic scaling of riverine bacterial production. *Ecological Monographs*. *In Review*.
2. **Follstad Shah, J.J.**, M.J. Harner, and T.M. Tibbets. *Elaeagnus angustifolia* alters soil inorganic nitrogen pools in riparian ecosystems. *Ecosystems*. *In Review*.
3. M.J. Harner, C.L. Crenshaw, M. Abelho, M. Stursova, **J.J. Follstad Shah**, and R.L. Sinsabaugh. 2009. Decomposition of native and nonnative leaf litter in relation to hydrology of riparian ecosystems. *Ecological Applications*. *In Press*.
4. **Follstad Shah, J.J.** and C.N. Dahm. 2008. Flood regime and leaf fall determine soil inorganic nitrogen dynamics semiarid riparian forests. *Ecological Applications* 18:771-788.
5. **Follstad Shah, J.J.**, C.N. Dahm, S.P. Gloss, and E.S. Bernhardt. 2007. River and riparian restoration in the Southwest: Results from the National River Restoration Science Synthesis Project. *Restoration Ecology* 15(3):550-562.
6. E.S. Bernhardt, E.B. Sudduth, M.A. Palmer, J.D. Allan, J.L. Meyer, G. Alexander, **J. Follstad Shah**, B. Hassett, R. Jenkinson, R. Lave, J. McFall, and L. Pagano. 2007. Restoring rivers one reach at a time: Results from a survey of U.S. river restoration practitioners. *Restoration Ecology* 15(3): 482-493.
7. Jenkinson, R.G., K.A. Barnas, J.H. Braatne, E.S. Bernhardt, M.A. Palmer, J.D. Allan, and the National River Restoration Science Synthesis Team (G. Alexander, S. Brooks, J. Carr, S. Clayton, C. Dahm, **J. Follstad Shah**, D. Galat, S. Gloss, P. Goodwin, D. Hart, B. Hassett, G. M. Kondolf, P. S. Lake, R. Lave, J.L. Meyer, T.K. O'Donnell, L. Pagano, and E. Sudduth). 2006. Stream restoration databases and case studies: a guide to information resources and their utility in advancing the science and practice of restoration. *Restoration Ecology* 14(2):177-186.
8. Bernhardt, E.S., M.A. Palmer, J.D. Allan, G. Alexander, K. Barnas, S. Brooks, J. Carr, C. Dahm, **J. Follstad Shah**, D. Galat, S. Gloss, P. Goodwin, D. Hart, B. Hassett, R. Jenkinson, S. Katz, G. M. Kondolf, P. S. Lake, R. Lave, J.L. Meyer, T.K. O'Donnell, L. Pagano, B. Powell, and E. Sudduth. 2005. Restoration of U.S. rivers – A national synthesis. *Science* 308:636-637.
9. Palmer, M.A., E.S. Bernhardt, J.D. Allan, P.S. Lake, G. Alexander, S. Brooks, J. Carr, S. Clayton, C.N. Dahm, **J.J. Follstad Shah**, D.L. Galat, S. Gloss, P. Goodwin, D.D. Hart, B. Hassett, R. Jenkinson, G.M. Kondolf, R. Lave, J.L. Meyer, T.K. O'Donnell, L. Pagano, and E. Sudduth. 2005. Standards for ecologically successful river restoration. *Journal of Applied Ecology* 42(2):208-217.

## RESEARCH SUPPORT:

- 2007 National Science Foundation Bioinformatics Postdoctoral Fellowship: “The Metabolic Theory of Ecology and resource saturation kinetics”, \$120,000
- 2005 New Mexico Water Resources Research Institute, Student Research Grant Program: “Mycorrhizal colonization in cottonwood and salt cedar stands along the middle Rio Grande: Implications for water quality and water consumption”, \$3,000
- 2003 EPA Minority Academic Institution Graduate Fellowship: “Effects of flooding and nitrogen availability on riparian vegetation in arid ecosystems: Mechanisms driving non-native species invasions”, \$75,000
- Biocomplexity Fellowship, University of New Mexico: “Ecological complexity of riverine ecosystems: Scaling of whole stream metabolism and nutrient uptake rates”; Acceptance of fellowship withdrawn to accept EPA MAI Fellowship, \$21,000
- Alvin R. and Caroline G. Grove Summer Scholarship, University of New Mexico “Effects of flooding and nitrogen availability on competition between *Populus* and *Tamarix* seedlings”, \$2,500
- 2002 Student Research Allocations Committee, University of New Mexico: “Assessing the role of flooding and nitrogen availability related to the spread of invasive saltcedar (*Tamarix chinensis*)”, \$400
- Graduate Research Allocations Committee, Department of Biology, University of New Mexico: “Effects of flooding and nitrogen on the spread of saltcedar (*Tamarix chinensis*)”, \$298

## TEACHING / MENTORING:

- 2005 Organizer, IGERT Freshwater Sciences Interdisciplinary Doctoral Program Seminar (Biology 502), University of New Mexico  
Topic: Improving communication between scientists and media/policy makers
- 2004 Mentor, University of New Mexico Plant Physiology Lab (Biology 478L)
- 2003 Mentor, NASA Summer High-School Apprenticeship Research Program, University of New Mexico, Department of Biology
- Assistant Lecturer, Limnology (Biology 495), University of New Mexico
- Teaching Assistant, Limnology Lab (Biology 496), University of New Mexico
- Teaching Assistant, Introductory Biology (Biology 122), University of New Mexico
- 2002 Mentor, NSF Research Experiences for Undergraduates, University of New Mexico, Department of Civil Engineering

**PROFESSIONAL SERVICE:**

- North American Benthological Society Executive Committee (2007-2009)
- *Journal Review*: Ecological Applications, Environmental Science & Policy, Journal of Geophysical Research – Biogeosciences, Journal of Applied Ecology, Journal of the North American Benthological Society, Nature, Proceedings of the National Academy of Sciences, Restoration Ecology, Water Resources Research
- *Proposal Review*: National Science Foundation Biological Databases and Infrastructure, National Science Foundation Ecosystem Studies

**UNIVERSITY SERVICE:**

- Biology Graduate Student Association, University of New Mexico, Co-President (2001-2002)
- *Proposal Review*: University of New Mexico 3 % Scholarship (2002-2005), University of New Mexico Student Research Allocations Committee (2003-2005)

**MEDIA COVERAGE:**

Ash, S. “UNM doctoral student studies mycorrhizal colonization”, *Divining Rod* (New Mexico Water Resources Research Institute), p. 9, Vol. XXIX, No. 3, September 2006

Malakoff, D. “Measuring Success of River Restorations”, Morning Edition, National Public Radio, April 29, 2005

Fleck, J., “River Run”, *Albuquerque Journal*, April 29, 2005

Knapp, K., “Udall: Science should aid policy”, *New Mexico Daily Lobo*, March 29, 2005

Limon, I., “Grants benefit students, state”, *New Mexico Daily Lobo*, January 18, 2002