

TERESA LEGG

Institute of Arctic and Alpine Research, University of Colorado
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EDUCATION

- 2008-Present** Ph.D. Candidate, Department of Ecology and Evolutionary Biology
University of Colorado, Boulder | Advisor: Dr. Diana Nemergut
Dissertation: *The role of bacterial communities in groundwater arsenic cycling*
- 2006-2008** M.A., Department of Geography
University of Colorado, Boulder | Advisor: Dr. Peter Blanken
Thesis: *The Hydrology and Hydrochemistry of High Creek Fen*
- 1999-2003** B.S., Clark Honors College and Department of Environmental Science
University of Oregon, Eugene
Honor's Thesis: *A field study of the Winter Springs Ranch riparian restoration project, South Coos River, OR*

RESEARCH EXPERIENCE

- 7/08-Present** *Ph.D. Student Researcher, INSTAAR, University of Colorado*
• Investigation of the role of microbial community structure dissolved organic matter in groundwater arsenic mobilization in Bangladesh through field and laboratory methods.
- 6/07-6/08** *Adam Kolff Graduate Research Fellow, Department of Geography, University of Colorado*
• Characterization of the spatial and temporal dynamics in groundwater hydrology and hydrochemistry of a high elevation fen ecosystem.
- 5/04-8/04** *Research Assistant, Mountain Lake Biological Station, University of Virginia*
• Collected data on life history traits of native tree and herb species, and conducted surveys for insects and amphibians.
- 6/03-9/03** *Experimental Biology Assistant, Oregon Department of Fish and Wildlife*
• Collected data on stream geomorphology, aquatic habitat characteristics, and cutthroat trout population sizes in a remote desert location.
- 9/02-5/03** *Undergraduate Honors Research Intern, Coos Watershed Association*
• Characterized the effect of different invasive species removal techniques on the growth and survival rates of native tree species in a riparian zone.

PUBLICATIONS *in preparation and review*

Nemergut, D. R., S. K. Schmidt, T. Fukami, A. P. Martin, S. P. O'Neill, **T. M. Legg**, L. Stanish, J. Knelman, S. Ferrenberg, J. Darcy, R. Lynch, and P. Wickey. (in preparation). Microbial community assembly: patterns and processes. *Microbiology and Molecular Biology Reviews*.

Fierer, N., S. Ferrenberg, G. Flores, A. Gonzalez, J. Kueneman, **T. Legg**, R. C. Lynch, D. McDonald, J. Mihaljevic, S. P. O'Neill, M. Rhodes, S. J. Song and W. A. Walters. (accepted). From animalcules to the superorganism: application of ecological concepts to the human microbiome. *Annual Review of Ecology and Evolution*.

PUBLICATIONS *published*

Legg, T. M., Y. Zheng, B. Simone, K. A. Radloff, N. Mladenov, A. Gonzalez, D. Knights, H. C. Siu, M. M. Rahman, K. M. Ahmed, D. M. McKnight, and D. R. Nemergut. (2012). Carbon, metals and grain size correlate with bacterial community structure in sediments of a high arsenic aquifer. *Frontiers in Microbiology* **3**(82):1-15.

Knelman, J. E., **T. M. Legg**, S. P. O'Neill, C. L. Washenberger, A. Gonzalez, C. C. Cleveland, and D.R. Nemergut. (2012). Bacterial community structure and function change in association with colonizer plants during early primary succession in a glacier forefield. *Soil Biology and Biochemistry* **46**: 172-180.

Yilmaz, P., R. Kottmann, et al. (2011). Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MlxS) specifications. *Nature Biotechnology* **29**(5): 415-420.

Mladenov, N., Y. Zheng, M. P. Miller, D. R. Nemergut, **T. Legg**, B. Simone, C. Hageman, M. M. Rahman, K. M. Ahmed, and D. M. McKnight. (2010). Dissolved Organic Matter Sources and Consequences for Iron and Arsenic Mobilization in Bangladesh Aquifers. *Environmental Science & Technology* **44**(1): 123-128.

FELLOWSHIPS & AWARDS

2010-2012	NSF Graduate STEM Fellowship (GK-12)
2010-2011	American Philosophical Society Lewis and Clark Fund for Exploration and Research doctoral student grant
2009-2012	Achievement Rewards for College Scientists (ARCS) Scholar
2009	NSF Graduate Research Fellowship, Honorable Mention
2010	Ecology and Evolutionary Biology Dept. Graduate Student Research Grant, University of Colorado, Boulder
2009	Microbial Diversity Course Scholarship, Marine Biological Laboratory
2009	Beverly Sears Graduate Student Grant (Ph.D.), University of Colorado
2008	Beverly Sears Graduate Student Grant (M.A.), University of Colorado
2007	Dept. of Geography Special Projects Grant, University of Colorado
2007	Adam Kolff Graduate Student Research Fellowship, Dept. of Geography, University of Colorado
1999-2003	University of Oregon Dean's Scholarship
1999-2000	University of Oregon Dean's List

TEACHING & SYNERGISTIC ACTIVITIES

7/08-12/11	Mentor to undergraduate students (6 students total), CU Boulder
7/10-6/12	NSF Graduate STEM Teaching Fellow, K-12 schools, Boulder, CO
9/09-12/10	Co-organizer, INSTAAR Graduate Student Seminar Series, CU Boulder
4/09 & 4/10	INSTAAR open house and community outreach guide, CU Boulder
1/08-5/08	Teaching Assistant, CU Boulder, Principles of Climate (GEOG 3601)
8/07-12/07	Teaching Assistant, CU Boulder, Human Geography (GEOG 1992)
6/07-7/07	Teaching Assistant, CU Boulder, World Regional Geography (GEOG 1982)
1/07-5/07	Teaching Assistant, CU Boulder, Climate and Vegetation (GEOG 1001)
8/06-12/06	Teaching Assistant, CU Boulder, Human Geography (GEOG 1992)

CONFERENCE PRESENTATIONS *Oral Presentations*

- Legg, T. M.**, B. Simone, N. Mladenov, Y. Zheng, D. M. McKnight and D. R. Nemerugut. (2011). *Labile and redox-active organic matter sources influence bacterial community structure and groundwater arsenic mobilization*. International Symposium of Subsurface Microbiology, Garmisch-Partenkirchen, Germany.
- Legg, T. M.**, P. D. Blanken and S.P. Anderson. (2007). *A hydrologic study of High Creek Fen: groundwater dynamics and sources*. American Geophysical Union Annual Meeting, San Francisco, CA.

CONFERENCE PRESENTATIONS *Poster Presentations*

American Society for Microbiology Annual Meeting

New Orleans, LA. May 2011. Poster Presentation: *Sedimentary Carbon, metals, and grain size structure bacterial community composition in a high arsenic aquifer*. **T. M. Legg**, Y. Zheng, B. Simone, K. A. Radloff, N. Mladenov, A. González, D. Knights, H. Siu, M. M. Rahman, K. M. Ahmed, D. M. McKnight and D. R. Nemerugut.

International Society for Microbial Ecology

Seattle, WA. August 2010. Poster Presentation: *Patterns in bacterial community structure across groundwater arsenic gradients*. **T. M. Legg**, D. R. Nemerugut, B. Simone, D. M. McKnight, A. González and Y. Zheng.

American Society for Microbiology Annual Meeting

Philadelphia, PA. May 2009. Poster Presentation: *Bacterial community structure across arsenic gradients in groundwater sediment: a case study from Araihasar, Bangladesh*. **T. M. Legg**, K. A. Radloff, B. Simone, N. Mladenov, Y. Zheng, D. M. McKnight and D. R. Nemerugut.

American Geophysical Union Annual Meeting

San Francisco, CA. December 2008. Poster Presentation: *Microbial community structure and the mobilization of groundwater arsenic: evidence from Araihasar, Bangladesh*. **T. M. Legg**, D. R. Nemerugut, K. A. Radloff, Y. Zheng, B. Simone and D.M. McKnight.

Geological Society of America

Denver, CO. October 2007. Poster Presentation: *Methods for identifying groundwater sources to High Creek Fen*. **T. M. Legg** and P.D. Blanken.

PROFESSIONAL TRAINING

- 2011** Presentation Boot Camp, led by Dr. Richard Tankersley, Florida State University Coastal & Marine Lab
- 2009** Marine Biological Laboratory, Microbial Diversity Course, Woods Hole, MA

PROFESSIONAL AFFILIATIONS

American Society for Microbiology, Student Member
American Geophysical Union, Student Member