

## **ANNIKA C. MOSIER**

Department of Integrative Biology • University of Colorado, Denver • Denver, CO 80217

Email: annika.mosier@ucdenver.edu • Telephone: 303.315.7657

### **EDUCATION**

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- 2011 **Ph.D.**, Stanford University, Department of Environmental Earth System Science  
2004 **M.S.**, University of Nevada, Reno, Department of Environmental and Natural Resource Sciences  
2000 **B.A.**, Willamette University, Major in Biology, Minor in Environmental Science

### **PROFESSIONAL EXPERIENCE**

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- 2014-present Assistant Professor, University of Colorado, Denver, Department of Integrative Biology  
Affiliated Faculty, University of Colorado, Denver, Environmental Sciences Program  
2011-2014 Postdoctoral Scholar, University of California, Berkeley  
2005-2011 Graduate Research Assistant, Stanford University  
2005 Astrobiologist/Program Administrator, Nevada NASA Space Grant Consortium  
2002-2004 Graduate Research Assistant, Desert Research Institute  
2001-2002 Laboratory Assistant, Desert Research Institute  
2000-2001 Associate Scientist, Trinity Biotech, Inc.  
1999, 2000 Science and Technology Camp Director, Boys and Girls Club

### **RESEARCH GRANTS**

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- 2017 USDA Forest Service, Forest Health Protection (\$16,900; Co-PI)  
2017 University of Colorado, Denver, Office of Research Services Small Grant (\$3,000; Co-PI)  
2016 City and County of Denver, Environmental Quality Division (\$33,022; PI)  
2016 University of Colorado, Denver, College of Liberal Arts and Sciences CRISP Grant (\$10,000; PI)  
2016 University of Colorado, Denver, Office of Research Services Large Grant (\$21,250; Co-PI)  
2016 Research Agreement with BeeInventive Pty Ltd (\$2,771 estimated in-kind support; Co-PI)  
2015 University of Colorado, Denver, Office of Research Services Capital Grant (\$17,200; Co-PI)  
2014 University of Colorado, Denver, Office of Research Services Large Grant (\$15,000)  
2012 DOE Joint Genome Institute, Microbial Sequencing Grant (Awarded to Mosier, Singer & Banfield; Funded to sequence 12 transcriptomes and 12 metatranscriptomes)  
2009 Stanford University, School of Earth Sciences McGee Research Grant (\$2000)  
2009 Stanford University, Environmental Earth System Science Capital Grant (\$1,066)  
2008 Gordon and Betty Moore Foundation, Microbial Genome Sequencing Grant (Awarded to Francis & Mosier; Funded to sequence one microbial genome)  
2007 Gordon and Betty Moore Foundation, Microbial Genome Sequencing Grant (Awarded to Francis & Mosier; Funded to sequence one microbial genome)  
2006 Stanford University, School of Earth Sciences McGee Research Grant (\$2000)

### **FELLOWSHIPS AND SCHOLARSHIPS**

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- 2009-2011 Stanford University Diversifying Academia, Recruiting Excellence Doctoral Fellowship  
2007-2010 EPA STAR Graduate Research Fellowship  
2007-2010 NOAA National Estuarine Research Reserve Graduate Research Fellowship (*declined*)  
2004 Governor Kenny Guinn Environmental Research Fellowship  
2003-2004 NASA Space Grant Graduate Fellowship, Nevada NASA Space Grant Consortium  
2003 Joan M Comanor Scholarship, University of Nevada, Reno  
2002-2004 Oregon Ford Graduate Scholarship, Ford Family Foundation  
1996-2000 Hallie Brown Ford Undergraduate Scholarship  
1996-2000 Oregon Ford Undergraduate Scholarship, Ford Family Foundation

**HONORS AND AWARDS**

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- 2017 Young Upwardly Mobile Professors Travel Grant, University of Colorado, Denver
  - 2015 Young Upwardly Mobile Professors Travel Grant, University of Colorado, Denver
  - 2014 Young Upwardly Mobile Professors Travel Grant, University of Colorado, Denver
  - 2011 Outstanding Achievement in Mentoring Honor, Stanford University
  - 2009 Nitrification Network Travel Grant
  - 2009 American Society for Microbiology Travel Grant
  - 2007 American Society for Microbiology Travel Grant
  - 2006 Student Poster Scholarship, The Annual International Conference on Metagenomics
  - 2004 Graduate Student Association Travel Grant, University of Nevada, Reno
  - 2004 Phi Kappa Phi Honor Society Invitation, University of Nevada, Reno
  - 2003 Graduate Student Association Travel Grant, University of Nevada, Reno

**REFEREED PUBLICATIONS** (<sup>†</sup>indicates mentored students)

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- 2017 Ramanathan<sup>†</sup>, B., Boddicker<sup>†</sup>, A.M., Roane, T.M., and **A.C. Mosier**. Nitrifier gene abundance and diversity in sediments impacted by acid mine drainage. *Frontiers in Microbiology*, 8: Article 2136.
  - 2016 **Mosier, A.C.**, Miller, C.S., Frischkorn, K.R., Ohm, R.A., Li, Z., LaButti, K., Lapidus, A., Lipzen, A., Chen, C., Johnson, J., Lindquist, E.A., Pan, C., Hettich, R.L., Grigoriev, I.V., Singer, S.W., and J.F. Banfield. Fungi contribute critical but spatially varying roles in nitrogen and carbon cycling in acid mine drainage. *Frontiers in Microbiology*, 7: Article 238.
  - 2015 **Mosier, A.C.**, Li, Z., Pan, C., Thomas, B.C., Hettich, R.L., and J.F. Banfield. Elevated temperature alters proteomic responses of individual organisms within a biofilm community. *The ISME Journal*, 9: 180–194.  
-Featured “Research Highlight” in *Nature Reviews Microbiology*.
  - 2015 Smith, J.M., **Mosier, A.C.**, and C.A. Francis. Spatiotemporal relationships between the abundance, distribution, and potential activities of ammonia-oxidizing and denitrifying microorganisms in intertidal sediments. *Microbial Ecology*, 69:13-24.
  - 2015 Damashek, J., Smith, J.M., **Mosier, A.C.**, and C.A. Francis. Benthic ammonia oxidizers differ in community structure and biogeochemical potential across a riverine delta. *Frontiers in Microbiology*, 5: Article 743.
  - 2014 Justice, N.B., Li, Z., Wang, Y., Spaulding, S.E., **Mosier, A.C.**, Hettich, R.L., Pan, C., and J.F. Banfield. <sup>15</sup>N- and <sup>2</sup>H proteomic stable isotope probing links nitrogen flow to archaeal heterotrophic activity. *Environmental Microbiology*, 16: 3224-3237.
  - 2013 **Mosier\***, **A.C.**, **Justice\***, **N.B.**, Bowen, B.P., Baran, R., Thomas, B.C., Northen, T.R., and J.F. Banfield. Metabolites associated with adaptation of microorganisms to an acidophilic, metal-rich environment identified by stable-isotope-enabled metabolomics. *mBio* 4(2):00484-12.  
**\*Contributed Equally**
  - 2012 **Mosier, A.C.**, Lund, M.B., and C.A. Francis. Ecophysiology of an ammonia-oxidizing archaeon adapted to low-salinity habitats. *Microbial Ecology*, 64: 955-963.
  - 2012 Biller, S.J., **Mosier\***, **A.C.**, **Wells\***, **G.F.**, and C.A. Francis. Global biodiversity of aquatic ammonia-oxidizing archaea is partitioned by habitat. *Frontiers in Microbiology*, 3: Article 252.  
**\*Contributed Equally**
  - 2012 **Mosier, A.C.**, Allen, E.E., Kim, M., Ferriera, S., and C.A. Francis. Genome sequence of “*Candidatus Nitrosoarchaeum limnia*” BG20, a low-salinity ammonia oxidizing archaeon from the San Francisco Bay estuary. *Journal of Bacteriology*, 194: 2119-2120.
  - 2012 **Mosier, A.C.**, Allen, E.E., Kim, M., Ferriera, S., and C.A. Francis. Genome sequence of “*Candidatus Nitrosopumilus salaria*” BD31, an ammonia oxidizing archaeon from the San Francisco Bay estuary. *Journal of Bacteriology*, 194: 2121-2122.

- 2012 Robidart, J.C., Preston, C.M., Paerl, R.W., Turk, K.A., **Mosier, A.C.**, Francis, C.A., Scholin, C.A., and J.P. Zehr. Seasonal *Synechococcus* and *Thaumarchaeal* population dynamics examined with high resolution with remote in situ instrumentation. *The ISME Journal*, 6: 513-523.
- 2011 Pitcher, A., Hopmans, E.C., **Mosier, A.C.**, Park, S., Rhee, S., Francis, C.A., Schouten, S., and J.S. Sinninghe Damsté. Core and intact polar glycerol dibiphytanyl glycerol tetraether lipids of ammonia-oxidizing archaea enriched from marine and estuarine sediments. *Applied and Environmental Microbiology*, 77:3468-3477.
- 2011 **Mosier, A.C.**, and C.A. Francis. Determining the distribution of marine and coastal ammonia-oxidizing archaea and bacteria using a quantitative approach. *Methods in Enzymology*, 486: 205-221.
- 2011 **Blainey\*, P.C., Mosier\*, A.C.**, Potanina, A., Francis, C.A., and S.R. Quake. Genome of a low-salinity ammonia-oxidizing archaeon determined by single-cell and metagenomic analysis. *PLoS ONE*, 6: e16626. **\*Contributed Equally.**  
**-Featured “most highly cited article” in PLoS ONE (May 2013).**  
**-Featured “highly cited paper” in Web of Science (July/August 2017).**
- 2011 Wankel, S.D., **Mosier, A.C.**, Hansel, C.M., Paytan, A., and C.A. Francis. Spatial variability in nitrification rates and ammonia-oxidizing microbial communities in the agriculturally impacted Elkhorn Slough estuary, California. *Applied and Environmental Microbiology*, 77(1): 269-280.
- 2010 **Mosier, A.C.**, and C.A. Francis. Denitrifier abundance and activity across the San Francisco Bay estuary. *Environmental Microbiology Reports*, 2(5): 667–676.
- 2008 **Mosier, A.C.**, and C.A. Francis. Relative abundance and diversity of ammonia-oxidizing archaea and bacteria in the San Francisco Bay estuary. *Environmental Microbiology*, 10(11): 3002-3016.
- 2007 **Mosier, A.C.**, Murray, A.E., and C.H. Fritsen. Microbiota within the perennial ice cover of Lake Vida, Antarctica. *FEMS Microbiology Ecology*, 59: 274-288.
- 2006 **Mosier, A.** Diversity of Life. In L. Mix, J. Armstrong, A. Mandel, **A. Mosier**, S. Rao, J. Raymond, S. Raymond, F. Stewart, and O. Zhaxybayeva, eds. *The Astrobiology Primer*. *Astrobiology*, 6 (5): 735-813.

#### **PUBLICATIONS IN PREPARATION** (†indicates mentored students)

- Wise†, B., Roane, T.M., and **A.C. Mosier**. Community structure of denitrification genes in an acid mine drainage environment. *In Prep*.
- Boddicker†, A.B., and **A.C. Mosier**. Cultivation and genomic sequencing of novel nitrite-oxidizing bacteria. *In Prep*.
- Scopp†, A., Subotic†, S., and **A.C. Mosier**. Determining the source of fecal pollution in urban streams through microbial source tracking. *In Prep*.
- Mosier, A.C.**, Frischkorn, K.R., Li, Z., Lipzen, A., Lindquist, E.A., Hettich, R.L., Pan, C., Singer, S.W., and J.F. Banfield. Differential transcript and protein expression of an acidophilic fungus grown on simple and complex carbon substrates. *In Prep*.

#### **NON-REFEREED PUBLICATIONS**

- 2003 Davis, C., **Mosier, A.C.**, and C.H. Fritsen. Incline Creek watershed bioassessment; Fall 2001-Spring 2002. Report for the Desert Research Institute.
- 2002 **Mosier, A.C.**, and C.H. Fritsen. Limnological profiles at Walker Lake, Nevada, March 2002. Report for the Nevada Division of Environmental Protection (Bureau of Water Quality Planning) and the Nevada Division of Wildlife (Fisheries Bureau).
- 2002 Memmott, J., Fritsen, C.H., **Mosier, A.C.**, and M. Robinson. Truckee River biomass monitoring program. Report for Washoe County and Truckee Meadows Water Reclamation Facility.

#### **INVITED TALKS AND SEMINARS**

- 2015 National Conference for the American Water Resources Association (Denver, CO)
- 2015 International Conference on Nitrification (Short-talk; Edmonton, Alberta, Canada)

- 2015 Rocky Mountain Hydrologic Research Center Annual Meeting (Denver, CO)
- 2015 University of Colorado, Denver, Geography & Environmental Sciences Seminar (Denver, CO)
- 2013 University of Colorado, Denver, Department of Integrative Biology (Denver, CO)
- 2012 DOE Joint Genome Institute Annual Meeting (Walnut Creek, CA)
- 2012 University of the Pacific, Department of Biology (Stockton, CA)
- 2012 California Lutheran University, Department of Biological Sciences (Thousand Oaks, CA)
- 2012 Siena College, Department of Biology (Albany, NY)
- 2012 East Carolina University, Department of Biology (Greenville, NC)
- 2012 California State University, Chico, Department of Biological Sciences (Chico, CA)
- 2009 International Conference on Nitrification (Short-talk; Louisville, KY)
- 2009 Coastal and Estuarine Research Federation Conference (Portland, OR)
- 2004 Nevada Space Grant Consortium Conference (Las Vegas, NV)
- 2004 NASA Astrobiology Graduate Conference (Tucson, AZ)

#### **CONFERENCE POSTER PRESENTATIONS**

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- 2017 American Society of Microbiology General Meeting, New Orleans, LA (student presenting author)
- 2017 Universities Council on Water Resources/National Institutes for Water Resources Conference, Fort Collins, CO (student presenting author)
- 2017 American Society of Microbiology Regional Meeting, Denver, CO (student presenting author)
- 2017 Rocky Mountain Chapter of the Society of Environmental Toxicology and Chemistry Meeting, Golden, CO (student presenting author)
- 2017 UCD Research and Creative Activities Symposium, Denver, CO (student presenting author)
- 2017 UCD Research and Creative Activities Symposium, Denver, CO (student presenting author)
- 2016 American Society of Microbiology Regional Meeting, Denver, CO (student presenting author)
- 2016 American Society of Microbiology Regional Meeting, Denver, CO (student presenting author)
- 2016 American Society of Microbiology General Meeting, Boston, MA (student presenting author)
- 2016 American Society of Microbiology General Meeting, Boston, MA (student presenting author)
- 2016 Geological Society of America Conference, Denver, CO (student presenting author)
- 2016 Sustaining Colorado Watersheds Conference, Avon, CO (student presenting author)
- 2016 UCD Research and Creative Activities Symposium, Denver, CO (student presenting author)
- 2016 Front Range Student Ecology Symposium, Fort Collins, CO (student presenting author)
- 2016 Front Range Student Ecology Symposium, Fort Collins, CO (student presenting author)
- 2015 American Society of Microbiology Regional Meeting, Lakewood, CO (student presenting author)
- 2015 UCD Research and Creative Activities Symposium, Denver, CO (student presenting author)
- 2013 American Society of Microbiology General Meeting, Denver, CO (co-author)
- 2012 American Society of Microbiology General Meeting, San Francisco, CA (presenting author)
- 2012 American Society of Microbiology General Meeting, San Francisco, CA (co-author)
- 2012 American Society of Microbiology General Meeting, San Francisco, CA (co-author)
- 2012 DOE Joint Genome Institute Annual Meeting, Walnut Creek, CA (presenting author)
- 2012 DOE Genomic Science Meeting, Bethesda, MD (presenting author)
- 2011 Congress of European Microbiologists (FEMS), Geneva, Switzerland (co-author)
- 2011 American Society of Microbiology General Meeting, New Orleans, LA (co-author)
- 2011 American Society of Microbiology General Meeting, New Orleans, LA (co-author)
- 2010 International Symposium on Microbial Ecology, Seattle, WA (presenting author)
- 2010 International Symposium on Microbial Ecology, Seattle, WA (co-author)
- 2010 International Symposium on Microbial Ecology, Seattle, WA (co-author)
- 2009 American Society of Microbiology General Meeting, Philadelphia, PA (presenting author)
- 2009 American Society of Microbiology General Meeting, Philadelphia, PA (co-author)
- 2009 Coastal and Estuarine Research Federation Biennial Conference, Portland, OR (co-author)
- 2009 Association for the Sciences of Limnology and Oceanography Meeting, Portland, OR (co-author)

- 2009 Association for the Sciences of Limnology and Oceanography Meeting, Nice, France (co-author)
- 2008 International Symposium on Microbial Ecology, Cairns, Australia (presenting author)
- 2008 Stanford University School of Earth Sciences Research Review, Stanford, CA (presenting author)
- 2008 Association for the Sciences of Limnology and Oceanography Meeting, Orlando, FL (co-author)
- 2008 American Society of Microbiology General Meeting, Boston, MA (co-author)
- 2007 American Society of Microbiology General Meeting, Toronto, Canada (presenting author)
- 2007 Stanford University School of Earth Sciences Research Review, Stanford, CA (presenting author)
- 2006 American Geophysical Union Fall Meeting, San Francisco, CA (presenting author)
- 2006 International Conference of Metagenomics, La Jolla, CA (presenting author)
- 2006 Association for the Sciences of Limnology and Oceanography Meeting, Honolulu, HI (co-author)
- 2005 Student Collaborations for Ocean Research and Education, Pacific Grove, CA (presenting author)
- 2004 International Symposium on Microbial Ecology, Cancun, Mexico (presenting author)
- 2004 National Science Foundation Nevada EPSCoR Workshop on Integrative Approaches to Abiotic Stress Across Biological Disciplines, Kings Beach, CA (presenting author)
- 2004 NASA Astrobiology Science Conference, Moffett Field, CA (presenting author)
- 2004 American Society of Microbiology General Meeting, New Orleans, LA (co-author)
- 2003 Association for the Sciences of Limnology and Oceanography Meeting, Salt Lake City, UT (co-author)

## TEACHING

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### Courses Taught.

General Microbiology, University of Colorado, Denver, BIOL3654  
 Biological Research Workshop, University of Colorado, Denver, BIOL6705  
 Biology Seminar, University of Colorado, Denver, BIOL4990/6655  
 Directed Research, University of Colorado, Denver, BIOL4880/5880  
 Independent Study, University of Colorado, Denver, BIOL2840/3840/4840/5840  
 Life in the Universe, Western Nevada Community College, EDU295B

### Invited Lecturer.

Environmental Sciences Seminar, University of Colorado, Denver, ENVS6002 (Fall 2017)  
 Colorado Foundation for Agriculture's Summer Agriculture Institute, Five Fridges Farm (Summer 2016)  
 Environmental Microbial Genomics, Stanford University, EESS259 (Winter 2014)  
 Geomicrobiology, Stanford University, EESS158 (Winter 2010)  
 Astrobiology, Western Nevada Community College, AST198 (Fall 2003)

### Teaching Assistant.

Hopkins Microbiology Course, Stanford University, CEE274 (Summer 2007; part-time for Summers 2008 & 2009)  
 Environmental Microbial Genomics, Stanford University, GES269 (Spring 2007)  
 Seminar in Oceanography, Stanford University, GES324 (Winter 2007)  
 Dynamic Earth: Fundamentals of Earth Science, Stanford University, GES1 (Fall 2006)  
 The Oceans: An Introduction to the Marine Environment, Stanford University, GES8 (Spring 2006)

## ADVISING

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### Research Advisor.

2017-present James Rivers, Undergraduate student, University of Colorado, Denver  
 2017-present Owen Berg, Undergraduate student, University of Colorado, Denver  
 2017-present Kaitlyn Elliott, Undergraduate student, University of Colorado, Denver  
     *\*Awarded an Undergraduate Research Opportunity Program Mini Grant (2017)*  
 2017-present Brian Legvold, Undergraduate student, University of Colorado, Denver  
 2016-present Michael Kain, Undergraduate student, University of Colorado, Denver

2016-present	Sladjana Subotic, Research assistant, University of Colorado, Denver
2016-present	Anna Scopp, M.S. student, University of Colorado, Denver
2015-present	Andrew Boddicker, M.S. student, Research assistant, University of Colorado, Denver <i>*Awarded the UCD CLAS Outstanding Graduate Student Award (Fall 2017)</i> <i>*Awarded an American Society of Microbiology Regional Meeting Poster Award and National Meeting Travel Grant (2016)</i>
2015-present	Munira Lantz, Ph.D. student, University of Colorado, Denver <i>*Awarded a Saudi Arabian Cultural Mission Graduate Fellowship (2014-present)</i>
2015-2017	Ben Wise, M.S. student, University of Colorado, Denver
2015-2017	Emily Corkum, M.S. student, University of Colorado, Denver
2016-2017	Vy Nguyen, Undergraduate/post-baccalaureate student, University of Colorado, Denver <i>*Awarded an Undergraduate Research Opportunity Program Grant (2016)</i> <i>*Awarded Top RaCAS presentation in Integrated Sciences (2017)</i>
2014-2017	Bhargavi Ramanathan, M.S. student, Research Assistant, University of Colorado, Denver <i>*Awarded an American Society of Microbiology Travel Grant (2016)</i>
2014-2016	Nicklaus Deevers, Undergraduate student, University of Colorado, Denver <i>*Awarded an Undergraduate Research Opportunity Program Grant (2015)</i>
2016	Renee Kershaw, Undergraduate student, University of Colorado, Denver
2016	Colin Beacom, Undergraduate student, University of Colorado, Denver
2015-2016	Ashley Gonzales, Undergraduate student, University of Colorado, Denver
2014-2015	Hannah Clark, Post-baccalaureate student, University of Colorado, Denver
2014-2015	Kerry Gip, Undergraduate student, University of Colorado, Denver
2014	Mudhafer Dhaher, Undergraduate student, University of Colorado, Denver
2014	Andrea Garcia, Undergraduate student, University of Colorado, Denver
2012	Kyle Frischkorn, Research assistant, University of California, Berkeley
2010	Jennifer Hwang, High school student, Stanford University
2008	Helen Chen, Undergraduate student, Stanford University
2006-2008	Natalie Derby, High school student, Stanford University
2005	Ivy Tai, High school student, Stanford University

**Graduate Thesis Committee Member.**

2016-Present	Kelsey Foster, M.S. student, University of Colorado, Denver
2016-Present	David Banks-Richardson, M.S. student, University of Colorado, Denver
2015-Present	Andres Andrade, Ph.D. student, University of Colorado, Denver
2014-Present	Adrienne Narrowe, Ph.D. student, University of Colorado, Denver
2014-2016	Sladjana Subotic, M.S. student, University of Colorado, Denver

**Learning Assistant Advisor.**

2017	Troy Markgraf, Undergraduate Student, University of Colorado, Denver
2017	Britany Innes, Undergraduate Student, University of Colorado, Denver
2017	Eunji Im, Undergraduate Student, University of Colorado, Denver
2017	Kaitlyn Elliott, Undergraduate Student, University of Colorado, Denver
2016	Renee Kershaw, Undergraduate Student, University of Colorado, Denver
2016	Anthony Dang, Undergraduate Student, University of Colorado, Denver
2016	Katie Harmon, Undergraduate Student, University of Colorado, Denver
2016	Tiffany Montoya, Undergraduate Student, University of Colorado, Denver

**SERVICE****Department Service.**

- 2014-present Committee Member, Department of Integrative Biology Teaching Effectiveness Committee, University of Colorado, Denver
- 2014-present Participant, Microbiology Super Group (department-wide bi-weekly microbiology research meeting)
- 2017 Ph.D. Preliminary Examination Committee, Department of Integrative Biology, University of Colorado, Denver
- 2015-2016 Committee Member, Search Committee for Physiological Genomics Faculty Position, Department of Integrative Biology, University of Colorado, Denver

**University Service.**

- 2017-Present Committee Member, College of Liberal Arts and Sciences (CLAS) Council, University of Colorado, Denver
- 2015-present Participant, First Generation Network, University of Colorado, Denver
- 2014-2017 Co-Faculty Sponsor, Women in Science, Technology, Engineering and Mathematics Student Group (WiSTEM), University of Colorado, Denver
- 2017 Grant Reviewer, Undergraduate Research Opportunity Program (UROP), University of Colorado, Denver
- 2016 Faculty Representative for Denver Campus, Environmental Health Sciences Program for Underrepresented Students, University of Colorado, Anschutz

**Professional Service: Invited Manuscript Reviewer (Number of Manuscripts).**

- 2017 Environmental Microbiology (1); FEMS Microbiology Ecology (1)
- 2016 The ISME Journal (1); Applied and Environmental Microbiology (1); Frontiers in Microbiology (2); Environmental Science and Technology (1); Standards in Genomic Sciences (1)
- 2015 The ISME Journal (1); Applied and Environmental Microbiology (1); Frontiers in Microbiology (1); Limnology and Oceanography (1); Microbial Ecology (1); Science of the Total Environment (1)
- 2014 The ISME Journal (2); FEMS Microbiology Ecology (1); Antonie van Leeuwenhoek Journal of Microbiology (2)
- 2013 Environmental Microbiology (1); Applied and Environmental Microbiology (3); Frontiers in Microbiology (1); BMC Microbiology (1); Microbial Ecology (2)
- 2012 The ISME Journal (1); FEMS Microbiology Ecology (3); Microbial Ecology (1)
- 2011 The ISME Journal (2)
- 2009 Research in Microbiology (1); Vadose Zone Journal (1)

**Professional Service: Invited Proposal Reviewer.**

- 2017 National Science Foundation, Antarctic Organisms and Ecosystems Program
- 2016 National Science Foundation, Division of Environmental Biology Program
- 2015 National Science Foundation, Biological Oceanography Program
- 2015 National Science Foundation, Geobiology and Low-Temperature Geochemistry Program
- 2015 Austrian Science Fund
- 2014 NASA Grant Review Panel, Exobiology Program, NNH14ZDA001N-EXO (reviewed 10 individual proposals and contributed to the broader panel review process)
- 2014 National Science Foundation, Biological Oceanography Program
- 2013 National Science Foundation, Biological Oceanography Program
- 2012 National Science Foundation, Biological Oceanography Program

**Professional Service: Invited Textbook Reviewer.**

- 2014 Reviewed six chapters of the textbook, “Microbiology: An Evolving Science” (W. W. Norton & Company)

**Professional Service: Other.**

- 2010 Participant, Microbiological Targets for Ocean Observing Laboratories (Micro-TOOLS) Workshop  
 2009 Executive Secretary, NASA Grant Review Panel, Exobiology, NNH08ZDA001N-EXOB  
 2009 Panel Participant, School of Earth Sciences Research Review, Stanford University  
 2008 Committee Member, Search for Marine Chemist Faculty Position, Stanford University  
 2007 Representative, School of Earth Sciences Graduate Student Advisory Council, Stanford University  
 2007 Committee Member, Search for Assistant Dean for Academic Affairs, School of Earth Sciences, Stanford University  
 2007 Organizing Committee Member, Association for Women in Science Mentoring Program (4 years)  
 2006 Participant, Global Bioreactor Network Workshop, Nanyang Technological University, Singapore

**Community Service.**

- 2009 Volunteer for the School of Earth Sciences Geokids Program, Stanford University  
 2008 Mentor for the Oregon Ford Scholar Mentoring Program  
 2008 Volunteer for the Expanding Your Horizons science conference for 6-9th grade girls  
 2003 Mentor for NASA Astrobiology Academy group research project

**Memberships in Professional Societies.**

American Society for Microbiology  
 American Water Resources Association  
 Association for Women in Science  
 International Society for Microbial Ecology

**PROFESSIONAL DEVELOPMENT**

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- 2017 Research Management Strategies (UCD)  
 2016 Pedagogy Brown Bag Series: Statistical Analyses in Undergraduate Courses (UCD)  
 2015 Council on Undergraduate Research Conference on Beginning a Research Program  
 2015 Seminar on “Inclusive Pedagogy” (UCD)  
 2014-present Participant in the Tenure Track Faculty Mentoring Program (UCD)  
 2014 Seminar on “Writing Effective Broader Impact Statements in Grant Proposals” (UCD)  
 2014 Seminar on “Integrating Positive Psychology in the College Classroom” (UCD)  
 2014 Seminar on “RTP Information Session for Tenure-Track Faculty” (UCD)  
 2008-2010 Management, Leadership, and Conflict Resolution Workshops (Stanford University)  
 2009-2010 Navigating the Academic Profession Course (Stanford University)  
 2009 EPA STAR Graduate Fellowship Conference Career Development Sessions  
 2009 Nitrification Network Workshop for Graduate Students and Early Stage Investigators  
 2008 Microbial Genomics and Metagenomics Workshop (DOE Joint Genome Institute)  
 2008-2009 Academic Chat Series on Academic Careers (Stanford University)  
 2008 Seminar on “Designing Your Own Course” (Stanford University)  
 2008 Seminar on “Teaching Portfolios” (Stanford University)  
 2007 Arthur Walker Program for Expanding Diversity in the Sciences (Stanford University)  
 2006 Hopkins Microbiology Course, Hopkins Marine Station (Stanford University)  
 2005-2011 Participant in the Association for Women in Science Mentoring Program  
 2005 Recorded Teaching Session (Stanford University)



2005	Professional Development in Geoscience Education Course (Stanford University)
2003	Marine Biological Laboratory Arctic Ecology and Modeling Course (Alaska)
2003	NASA Astrobiology Institute Insight Course: Planetary Science (N. Arizona University)
1998	Study Abroad, Biology of Australian Ecosystems (James Cook University, Australia)