KYLE ANN WHITTINGHILL
Curriculum Vitae
Rubenstein School of Environment and Natural Resources
University of Vermont • 81 Carrigan Drive • Burlington, VT 05405
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EDUCATION

2010 **Ph.D. in Ecology Evolution and Behavior**
University of Minnesota, St. Paul, MN
Advisors: Sarah Hobbie and Jacques Finlay
Dissertation: Effect of topography and glaciation history on the movement of carbon and nitrogen within arctic hillsides.

2003 **B.A. in Biology, Minors in Chemistry and Mathematics**
Middlebury College, Middlebury, VT
Thesis: Effects of atmospheric nitrogen and sulfur deposition on the balance of electron acceptors used in a forested wetland

2001 **Semester in Environmental Science**
Marine Biological Laboratory, Woods Hole, MA

PROFESSIONAL APPOINTMENTS

2023-Present **Lecturer**
University of Vermont Rubenstein School of Environment and Natural Resources, Burlington, VT
Courses Taught: Introduction to Environmental Science, Recovery and Restoration of Altered Ecosystems

2016-2022 **Lecturer and Undergraduate Advisor,**
promoted to **Teaching Associate Professor** in 2022
University of Pittsburgh Department of Geology and Environmental Science, Pittsburgh, PA:
Advisor for the Environmental Science Major
Courses Taught: Environmental Science, Environmental Geochemistry, Statistics for Earth Science, Ecosystem Ecology, Geographic Information Systems, Field Ecology in Wyoming, Environmental Issues: Parks and Forests, Environmental Modeling, French Foreign Language Trailer for Environmental Science

University of Pittsburgh College of Business Administration: Consultant/Subject Area Expert for BUS 1755 Service Learning in Organizations - Global (Spring 2019 and Spring 2020)

University of Pittsburgh Office of First-Year Programs: Instructor: FP 0001 Academic Foundations (Fall 2018 and Fall 2019)

University of Pittsburgh College of General Studies: Taught GEOL 0840 Environmental Science (Spring 2019)

University of Pittsburgh Honors College: Taught HONORS 1540: Honors Field Studies in Wyoming (Summer 2017)

2015-2016 **Visiting Assistant Professor**
Colorado College, Colorado Springs, CO
Courses Taught: Ecology, Biostatistics, Environmental Modeling

2013-2015 **Visiting Assistant Professor**
St. Olaf College, Northfield, MN
Courses Taught: Ecology, Introduction to Environmental Studies, Ecosystem Ecology, Hydrology, Environmental Modeling

2011-2013 **Post-Doctoral Scientist**
University of New Hampshire, Durham, NH

2010-2011 **Post-Doctoral Scientist**
University of Michigan, Ann Arbor, MI

OTHER TEACHING EXPERIENCE

2011 **Adjunct Faculty**
Colby-Sawyer College, New London, NH
Courses Taught: Terrestrial Ecosystem Ecology

2008-2009 **NSF GK-12 Teaching Fellow**
John A. Johnson Elementary, St. Paul, MN

2008-2009 **Adjunct Faculty**
University of St Thomas, St. Paul, MN
Courses Taught: Genetics, Evolution and Ecology, Diversity and Adaptation, Human Biology (non-majors)

2006-2007 **NSF GK-12 Teaching Fellow**
John A. Johnson Elementary, St. Paul, MN

2004-2007 **Teaching Assistant**
University of Minnesota, St. Paul, MN
Laboratories and Discussions Taught: Terrestrial Ecosystem Ecology, Ecology, General Biology (non-majors)

2000-2001 **Teaching Assistant and Grader**
Middlebury College, Middlebury, VT
Courses: Genetics and Evolution

OTHER RESEARCH EXPERIENCE

2003 Research Assistant
Arctic Long Term Ecological Research Site, AK

2002 NSF REU at Konza Prairie LTER
Kansas State University, Manhattan, KS
Research Experience for Undergraduates with Dr. Randall Bernot and Dr. Walter Dodds

PUBLICATIONS

Open Educational Resource Textbooks

2022 N. Brouwer, H. Connuck, H. Dubniczki, N. Gownaris, A. Howard, C. Olmsted, D. Wetzel, K. Whittinghill, A. Wilson, T. Zallek, eds. Ecology for All! Libretexts. https://bio.libretexts.org/Courses/Gettysburg_College/01%3A_Ecology_for_All

2021 Whittinghill, K.A., ed. Environmental Science. Libretexts. https://bio.libretexts.org/Courses/University_of_Pittsburgh/Environmental_Science_(Whittinghill)

Peer-Reviewed Publications

2020 Pellegrini, A.F.A., K.K. McLauchlan, S.E. Hobbie, M.C. Mack, A.L. Marcotte, D.M. Nelson, S.S. Perakis, P.B. Reich, KA. Whittinghill. Frequent burning causes large losses of carbon from deep soil layers in a temperate savanna. *Journal of Ecology* 108(4): 1426-1441.

2014 Whittinghill, K.A., J.C. Finlay, and S.E. Hobbie. Decomposition of dissolved organic carbon across a hillslope chronosequence in the Kuparuk River region, Alaska. *Soil Biology and Biochemistry* 79: 25-33.

2012 Whittinghill, K.A., W.S. Currie, D.R. Zak, A.J. Burton, and K.S. Pregitzer. Anthropogenic N deposition increases soil C storage by decreasing the extent of litter decay. *Ecosystems* 15(3): 450-461.

2012 Whittinghill, K.A. and S.E. Hobbie. Effects of pH and calcium on soil organic matter dynamics in Alaskan tundra. *Biogeochemistry* 111: 569-581.

2011 Whittinghill, K.A. and S.E. Hobbie. Effects of landscape age on soil organic matter processing in the Kuparuk River region, AK. *Soil Science Society of America Journal* 75(3): 907-917

2002 Bernot, R.J. and K.A. Whittinghill. Population differences in effects of fish on *Physa integra* refuge use. *American Midland Naturalist,* 150: 51-57.

GRANTS, AWARDS AND FELLOWSHIPS

2022	University of Pittsburgh Provost's Open Education Resources Grant
2022	PA GOAL (Pennsylvania Grants for Open and Affordable Learning) Grant Development of *Ecology for All*: OER Textbook
2021	University of Pittsburgh Discipline-Based Science Education Research Center Leadership Award
2020	University of Pittsburgh Discipline-Based Science Education Research Center Leadership Award
2019	University of Pittsburgh Discipline-Based Science Education Research Center Course Transformation Grant
2018	University of Pittsburgh Provost's Open Education Resources Grant
2018	University of Pittsburgh Discipline-Based Science Education Research Center Leadership Award
2016	University of Pittsburgh Discipline-Based Science Education Research Center Course Transformation Grant
2008	University of Minnesota Ideas Grant
2008	National Science Foundation Doctoral Dissertation Improvement Grant
2007	Sigma Xi Grant in Aid of Research
2007	University of Minnesota Thesis Research Grant
2007	University of Minnesota GAPSA Travel Grant
2007	University of Minnesota Department of Ecology, Evolution and Behavior Travel Grant
2006	University of Minnesota Dayton-Wilkie Natural History Fund Grant

2005 University of Minnesota
Dayton-Wilkie Natural History Fund Grant

2005 University of Minnesota
Elmer C. Birney Fellowship

2004 University of Minnesota
Dayton-Wilkie Natural History Fund Grant

2003 University of Minnesota
Graduate Fellowship

2002 Vermont Genetics Network
Undergraduate Research Internship

2002 Lake Champlain Research Consortium
Undergraduate Research Grant

PRESENTATIONS

Invited Talks and Seminars

2023 Whittinghill, K.A., N. Brouwer, N. Gownaris, A. Howard, C. Olmsted, D. Wetzel, A. Wilson, T. Zallek. Ecology for All! Finding and Contributing to Open Textbooks in Ecology Courses. Invited Presentation. Ecological Society of America Annual Meeting (scheduled for August 2023)

2021 Whittinghill, K.A. Incorporating cooperative learning in GEOL 0840: Environmental Science. SESMIC Showcase, March 31

2019 Whittinghill, K.A. Developing a Laboratory Component for GEOL 1515: Environmental Geochemistry. dB-SERC Lunch Presentation at the University of Pittsburgh, November 18.

2019 Whittinghill, K.A and D.M. Andrews-Brown. Incorporating Active Learning into GEOL 0840: Environmental Science. Presentation at the dB-SERC Faculty Retreat, May 5.

2019 Whittinghill, K.A. and D.M. Andrews-Brown. Incorporating Active Learning into GEOL 0840: Environmental Science. dB-SERC Lunch Presentation at the University of Pittsburgh, February 11.

2019 Whittinghill, K.A. Ecosystem Carbon and Nitrogen Cycling in Northern Ecosystems. Seminar at the University of Pittsburgh, January 16.

2018 Whittinghill, K.A. Incorporating Active Learning into GEOL 0840: Environmental Science. Presentation at the dB-SERC 5-year Celebration at the University of Pittsburgh, July 23.

2017 Whittinghill, K.A. and D.M. Andrews-Brown. Incorporating Active Learning into GEOL 0840: Environmental Science. dB-SERC Lunch Presentation at the University of Pittsburgh, October 16.

2017 Whittinghill, K.A. and D.M. Andrews-Brown. Incorporating cooperative learning activities in GEOL 0840: Introduction to Environmental Science lecture and recitation. . dB-SERC Lunch Presentation at the University of Pittsburgh, May 15.

2016 Whittinghill, K.A., Spatial and Seasonal Variability of Dissolved Organic Matter in Arctic Watersheds. Seminar at the University of Pittsburgh, March 16.

2015 Whittinghill, K.A., Changing Seasonality in Arctic Nutrient Cycling. Seminar at Earlham College, December 7.

2015 Whittinghill, K.A., Modeling Riverine Nitrogen Processing at Multiple Spatial Scales. Seminar at Colorado College, September, 10.

2015 Whittinghill, K.A., Modeling Riverine Nitrogen Processing at Multiple Spatial Scales. Seminar at The College of the Holy Cross, April, 16.

2015 Whittinghill, K.A., Modeling Riverine Nitrogen Processing at Multiple Spatial Scales. Seminar at Carleton College, January, 15.

2014 Whittinghill, K.A., Ecosystem Process Models to Examine Effects of Anthropogenic N on Forest and Watershed Biogeochemistry. Seminar at West Virginia University, March, 6.

2014 Whittinghill, K.A., Modeling Riverine Nitrogen Processing at Multiple Spatial Scales. Seminar at Lafayette College, February, 17.

2013 Whittinghill, K.A., Modeling Riverine Nitrogen Processing at Multiple Spatial Scales. Seminar for the Saint Olaf College Biology and Environmental Studies Seminar Series, December, 2.

2013 Whittinghill, K.A., Modeling Riverine Nitrogen Processing at Multiple Spatial Scales. Seminar for the University of New Hampshire Environmental Sciences Seminar Series, October, 25.

2011 Whittinghill, K.A., W.S. Currie, and D.R. Zak. Using an ecosystem process model to examine effects of increased nitrogen deposition on soil carbon storage through decreased decomposition. Seminar for the University of Michigan School of Natural Resources and the Environment's Conservation Ecology Seminar Series, February 11.

Invited Participation in Panels

2021 You, Too, Can Use Open Educational Resources (OER)! Presenter as part of a Panel Presentation to the Large Enrollment Faculty Learning Community at the University of Pittsburgh. February 25.

2020 Using Canvas in Large Enrollment Classes. Presenter as part of a Panel Presentation to the Large Enrollment Faculty Learning Community at the University of Pittsburgh. February 18.

2020 Inclusivity in Large Classrooms/Lectures. Presenter as part of a Panel Presentation at the University of Pittsburgh's annual Assessment and Teaching Conference. January 24.

2019 Faculty Perspectives – Open Education Resources Panel Discussion. Presenter as part of a Panel Presentation. March 4.

2018 Debrief of Virginia Tech Conference on Teaching Large Classes. Presenter as part of a Panel Presentation to the Large Enrollment Faculty Learning Community at the University of Pittsburgh. March 14.

Education Talks

2018 Whittinghill, K.A. Incorporating Cooperative Learning Activities into GEOL 0840: Environmental Science. Abstract and presentation at the University of Pittsburgh Assessment and Teaching Conference, January 26.

2017 Whittinghill, K.A. Independent Modeling Research in the Undergraduate Classroom. Abstract and presentation at the Geological Society of America Northeast/North-Central Joint Section Meeting, March 19-21.

2014 Whittinghill, K.A. Independent Environmental Modeling Research in the Undergraduate Classroom. Abstract and presentation at the American Geophysical Union meeting, San Francisco, CA, December 15-19.

2009 Whittinghill, K.A., M. Pope, and N. Faber. Using Ecosystem Ecology as a framework for integrating science content and basic skills lessons in a 5th grade classroom. Abstract and poster at the Ecological Society of America meetings, Arizona, August 3-8.

2009 Smith, B., A. DeAnda, R. Putnam, K.A. Whittinghill, L. Covington-Clarkson, S. Lanyon, K. Oberhauser, S. Weller, and K. Williams. Experiential learning, experimental methods: doing "real science" with elementary students. Abstract and poster at the National Science Foundation Graduate K-12 Program annual meeting, Washington D.C., March 27-29.

2008 Faber, N., K.A. Whittinghill, J.M. Dechaine, H.E. van Vleck. Scientists in the Classroom: A teacher/scientist collaboration model for an elementary school. Presentation at the National Science Teacher's Association Meeting. Massachusetts, March 27-30.

2007 Whittinghill, K.A., H.E. van Vleck, J.M. Dechaine, N. Faber. Using Soil Incubation Experiments to Enhance Urban Elementary School Student Understanding of Carbon Cycling. Abstract and poster at the American Geophysical Union meeting. California, December 10-17.

2007 J.M. Dechaine, K.A. Whittinghill, H.E. van Vleck, N. Faber, J. Gabrych, and J. Huneke. Suggestions for multiple ways that plant biologists can work with teachers to enhance science teaching and learning in K-12 classrooms. American Society of Plant Biology & Botanical Society of America Joint Congress. Chicago, Illinois, July 7-11.

Research Talks

Undergraduate student authors in bold

2016 Whittinghill, K.A, **M. Mackinlay, M. Beitner**, and R. T. Barnes**,** Influence of precipitation, vegetation type, and fire severity on post-fire vegetation recovery in Colorado ecosystems from 1985-2014. Abstract and presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, December 12-16.

2013 Whittinghill, K. A., Modeling Nitrogen Processing in Northeast River Networks. Abstract and poster at the American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13.

2013 Whittinghill, K. A., Modeling Nitrogen Processing in New England River Networks. Abstract, presentation and poster at the Catchment Science Gordon Research Conference and Gordon Research Seminar, Andover, NH June 15-21.

2013 Whittinghill, K. A., M. M. Mineau, Modeling Nitrogen Processing in New Hampshire River Networks. Abstract and presentation at the New Hampshire Water and Watersheds Conference, Plymouth, NH March 23.

2012 Whittinghill, K.A., W.M. Wollheim, W.B. Bowden, M.N. Gooseff, A.N. Wlostowski. Spatial and Temporal Variability in Sources and Fate of Dissolved Carbon and Nutrients in an Arctic River Network. Abstract and presentation at the American Geophysical Union meeting, California, December 3-7.

2012 Whittinghill, K.A., M.M. Mineau, H.A. Mills, W.M. Wollheim, R.B. Lammers, R.J. Stewart. Modeling Nitrogen Processing in New England Rivers: Interactions of Climate, Anthropogenic Development, and Aquatic Ecosystem Services. Abstract and presentation at the New Hampshire EPSCoR biannual meeting, Waterville Valley, NH, November 7.

2012 Whittinghill, K.A., W.M. Wollheim, W.B. Bowden, M.N. Gooseff, M.R. Herstand, A.N. Wlostowski. Examining effects of changing seasonality on arctic stream nutrients using a model of in-stream and hyporheic zone biogeochemical cycling. Abstract and presentation at the International Polar Year meeting, Montreal, Quebec, Canada, April 23-27.

2011 Whittinghill, K.A., W.M. Wollheim, W.B. Bowden, M.N. Gooseff, M.R. Herstand, C.C. Treat, and A.N. Wlostowski. Examining effects of changing seasonality on arctic stream nutrients using a model of in-stream and hyporheic zone biogeochemical cycling. Abstract and presentation at the American Geophysical Union meeting, California, December 5-9.

2011 Whittinghill, K.A., W.S. Currie, and D.R. Zak. Using an ecosystem process model to examine effects of increased nitrogen deposition on soil carbon storage through decreased decomposition. Abstract and poster at the Ecological Society of America meetings, Texas, August 8-12.

2011 Whittinghill, K.A., W.M. Wollheim, W.B. Bowden, M.N. Gooseff, M.R. Herstand, C.C. Treat, and A.N. Wlostowski. Examining effects of changing seasonality on arctic stream nutrients using a model of in-stream and hyporheic zone biogeochemical cycling. Abstract and presentation at the Catchment Science Gordon Research Seminar and Gordon Research Conference, Maine, July 9-15.

2010 Whittinghill, K.A., W.S. Currie, and D.R. Zak. Using an ecosystem process model to examine effects of increased nitrogen deposition on soil carbon storage through decreased decomposition. Abstract and poster at the American Geophysical Union meeting, California, December 13-17.

2009 Whittinghill, K.A., J.C. Finlay, and S.E. Hobbie. Decomposition of dissolved organic carbon across a hillslope chronosequence in the Kuparuk River region, Alaska. Abstract and presentation at the American Geophysical Union meeting, California, December 14-18.

2009 Whittinghill, K.A., J.C. Finlay, and S.E. Hobbie. Decomposition of dissolved organic carbon across a hillslope chronosequence in the Kuparuk River region, Alaska. Abstract and presentation at the Ecological Society of America meetings, Arizona, August 3-8.

2007 Whittinghill, K.A., S.E. Hobbie, and J.C. Finlay. A Multi-scale, Multi-method Approach to Examining the Effects of Landscape Age on Dissolved Organic Carbon and Nitrogen Movement in Arctic Alaska. Abstract and poster at the American Geophysical Union meeting, California, December 10-17.

2007 Whittinghill, K.A., J.C. Finlay and S.E. Hobbie. Effects of landscape age on small watershed organic carbon and nutrient fluxes in arctic Alaska. Abstract and presentation at an International Workshop on High Latitude Aquatic and Terrestrial Ecosystems, Abisko, Sweden, September 11-14.

2007 Whittinghill, K.A., J.C. Finlay and S.E. Hobbie. Effects of landscape age on small watershed organic carbon and nutrient fluxes in arctic Alaska. Abstract and presentation at the Ecological Society of America meetings, California, August 5-10.

2006 Whittinghill, K.A., and S.E. Hobbie. Effects of pH and calcium on soil organic matter dynamics across a glacial chronosequence in Alaskan tundra. Abstract and presentation at the Ecological Society of America meetings, Tennessee, August 6-11.

2002 **Whittinghill, K.A.** The effects of atmospheric nitrate and sulfate deposition on the balance of electron acceptors used for decomposition in a forested wetland. Poster at the Vermont Genetics Network annual symposium, Burlington, VT, August 14.

Co-authored Research Talks

Undergraduate student authors in bold

2016 **Wolf, K.,** R.T. Barnes, K.A. Whittinghill, K.A, **A. Gilbertson,** B. Buma, Carbon stocks and fluxes in fire disturbed landscapes of Colorado, U.S.A. Abstract and presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, December 12-16.

2015 **Behnke, M,** J. Schade, G. Fiske, K.A. Whittinghill, and N. Zimov. Patterns in Absorbance Measurements with Different Breakdown Mechanisms of DOC in Tundra Watersheds in the Kolyma River Basin. Abstract and presentation at the American Chemical Society meeting, Denver, CO, March 22-26.

2014 **Behnke, M,** J. Schade, G. Fiske, K.A. Whittinghill, and N. Zimov. Patterns in DOC concentration and composition in tundra watersheds in the Kolyma River Basin. Abstract and presentation at the American Geophysical Union meeting, San Francisco, CA, December 15-19.

2014 Stewart, R., W. Wollheim, K.A. Whittinghill, M. Mineau, B. Rosenzweig. Natural and Anthropogenic Water Treatment: How Riverine Ecosystem Services of Nitrogen Removal Interact with Wastewater Treatment Infrastructure in the Northeast U.S. Abstract and presentation at the American Geophysical Union meeting, San Francisco, CA, December 15-19.

2013 Adam Wlostowski, Erika Smull, Michael Gooseff, William Bowden, Wilfred Wollheim, and Kyle Whittinghill. Spatial and temporal controls on streamflow generation in a high arctic catchment: How does water accumulate along the valley floor? Abstract and presentation at the European Geophysical Union meeting, Vienna, Austria, April 7-12 and the Geological Society of America Meeting, Denver, CO, October 27-30.

2012 Bowden, W.B., M.S. Khosh, G. Waldvogel, M.N. Gooseff, W.M. Wollheim, K.A. Whittinghill, A.N. Wlostowski, A.D. Jacobson, J.W. McClelland, T.A. Douglas, G.O. Lehn, A. Barker. Seasonal asynchrony in terrestrial nutrient production and demand drives nutrient delivery to arctic streams.

2012 Duncan, J.M., L.E. Band, I.F. Creed, C. Duffy, M.B. Green, P.M. Groffman, C. Tague, K.A. Whittinghill, W.M. Wollheim. Bridging the Divide: understanding controls on nitrogen export by scaling from headwater catchments to eastern North America. Abstract and presentation at the American Geophysical Union meeting, California, December 3-7.

2012 Wlostowski, A.N., M.N. Gooseff, W.B. Bowden, W.M. Wollheim, K.A. Whittinghill. Hydrogeomorphic contrast between inlet and outlet streams of a high arctic lake influence stream-groundwater exchange. Abstract and presentation at the American Geophysical Union meeting, California, December 3-7.

2012 Covino, T.P., W.B. Bowden, M.N. Gooseff, W.M. Wollheim, B.L. McGlynn, K.A. Whittinghill, A.N. Wlostowski, M.R. Herstand. Deciphering relationships between in-stream travel times, nutrient concentrations, and uptake through analysis of hysteretic and non-hysteretic kinetic behavior. Abstract and presentation at the American Geophysical Union meeting, California, December 3-7.

2011 Wlostowski, A.N., M.N. Gooseff, W.B. Bowden, W.M. Wollheim, M.R. Herstand, K.A. Whittinghill. What are the controls on surface and hyporheic transient storage in Alaskan tundra streams? Abstract and presentation at the American Geophysical Union meeting, California, December 5-9.

2011 Herstand, M.R., W.B. Bowden, M.N. Gooseff, K.A. Whittinghill, A.N. Wlostowski, W.M. Wollheim. Influences of seasonality, geomorphology, and hydrology on primary production and respiration in Arctic stream ecosystems. Abstract and presentation at the American Geophysical Union meeting, California, December 5-9.

2011 Bowden, W.B., M.N. Gooseff, W.M. Wollheim, M.R. Herstand, C.C. Treat, K.A. Whittinghill, A.N. Wlostowski. Changing Seasonality in the Arctic and its Influences on Biogeochemical Processing in Tundra River Networks. Abstract and presentation at the American Geophysical Union meeting, California, December 5-9.

2002 Bernot, R.J. and K. Whittinghill. Effects of trematode parasites and predators on the habitat use of the pulmonate snail, *Physella integra*. Abstract and presentation at the North America Benthological Society meetings, Pittsburgh, Pennsylvania, May 28-June 1.

Sessions Organized

2014 American Geophysical Union
Organized contributed oral session and poster session Co-Chair
Session GC11: Decadal-to-Multidecadal Climate Variability, Climate Change, and Nutrient Cycling at High Latitudes

2013 American Geophysical Union
Organized contributed oral session and poster session Co-Chair
Session GC46: Altered Nutrient Cycling in High-Latitude Ecosystems

2012 American Geophysical Union
Organized contributed oral session and poster session Co-Chair
Session GC12: Altered Nutrient Cycling in High-Latitude Ecosystems

2011 American Geophysical Union
Organized contributed oral session and poster session Co-Chair
Session GC32A: Impacts of Changing Seasonality on Arctic Systems and an Arctic in Rapid Transition

2008 American Geophysical Union
Organized contributed oral session Co-Chair
Session B22C: Soils: Mechanisms of Carbon Stabilization and Response to Climate Change IV

PROFESSIONAL DEVELOPMENT

2022 **Faculty and Staff Development Program Diversity and Inclusion Certificate**
University of Pittsburgh, Pittsburgh, PA

2020 **Dietrich School Diversity, Equity, and Inclusion Training**
University of Pittsburgh, Pittsburgh, PA

2020 **Online Teaching Faculty Learning Community**
University of Pittsburgh, Pittsburgh, PA

2018-2019 **Faculty Extended Diversity Experience**
University of Pittsburgh, Pittsburgh, PA

2018-2019 **Assessment Faculty Learning Community**
University of Pittsburgh, Pittsburgh, PA

2017 **Writing in the Disciplines Seminar**
University of Pittsburgh, Pittsburgh, PA

2011-2020 **Wilderness First Responder**
University of Michigan, University of New Hampshire, SOLO

2016 **Mental Health First Aid**
Colorado College, Colorado Springs, CO

2015 **Good to Great: The Journey to Inclusion at CC**
Colorado College, Colorado Springs, CO

2014 **HHMI First-Year Writing Workshop:**
"Exploring Science in First-Year Seminar"
St. Olaf College, Northfield, MN

2013 **Women in Science and Engineering (Boston): Software Carpentry Boot Camp,**
Microsoft Research, Boston, MA

2013 **LTER Network Office Cross Site Comparison Workshop: Seasonal Synchrony of Nitrogen**
North Carolina Botanical Garden, Chapel Hill, NC

2013 **PnET Users Workshop**
Earth Systems Research Center, University of New Hampshire, Durham, NH

2013 **LTER Network Office Workshop: Linking aquatic and soil organic matter across ecosystems through characterization of optical properties**
Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO

2013 **Fluorescence/PARAFAC Workshop**
Institute of Arctic and Alpine Research, University of Colorado, Boulder, CO

2007 **High Latitude Terrestrial and Freshwater Ecosystems: Interactions and Response to Environmental Change Workshop**
Climate Impacts Research Centre, Abisko, Sweden

2007 **Advance Study Program on Regional Biogeochemistry: Needs and Methodologies**
National Center for Atmospheric Research, Boulder, CO

2007 **Teaching with Writing in Biology** Weekly Seminar
University of Minnesota, St. Paul, MN

2005-2006 **Teaching in Higher Education** and **Practicum for Future Faculty,** Preparing Future Faculty Teaching Methods Courses and Teaching Internship
University of Minnesota, St. Paul, MN

2004 **Teaching with Writing: A writing pedagogy methods seminar** Workshop
University of Minnesota, St. Paul, MN

2004 **IARC 2004 Summer School: Arctic Climate and Terrestrial Ecosystems Summer Workshop**
University of Alaska, Fairbanks, AK

PROFESSIONAL SERVICE AND OUTREACH

Service to the University of Pittsburgh

2021-Present University Undergraduate Advising Committee, Provost's Office
University of Pittsburgh, Pittsburgh, PA

2021-Present Peer Buddy Mentor for new AS faculty
Kenneth P. Dietrich School of Arts & Sciences
University of Pittsburgh, Pittsburgh, PA

2018-Present Provost's Committee for Open Educational Resources (OER)
University of Pittsburgh, Pittsburgh, PA

2020-Present Co-leader Faculty PMACC, Provost's Office
University of Pittsburgh, Pittsburgh, PA

2018-Present Sustainability Task Force
Living Lab Subcommittee (2018-2020)
University of Pittsburgh, Pittsburgh, PA

2019-2022 Kenneth P. Dietrich School of Arts & Sciences Undergraduate Council
Appointment Stream Representative for the Natural Sciences
University of Pittsburgh, Pittsburgh, PA

2019-2022 Pathways Faculty Committee, Provost's Office
University of Pittsburgh, Pittsburgh, PA

2020 Directors of Advising Group, Provost's Office
University of Pittsburgh, Pittsburgh, PA

Service to the Department of Geology and Environmental Science

2016-Present Department of Geology and Environmental Science Undergraduate Curriculum Committee
University of Pittsburgh, Pittsburgh, PA

2017-2022 Department of Geology and Environmental Science DEI Committee
University of Pittsburgh, Pittsburgh, PA

Other Service

2010-2018 **Peer Reviewer**
Biogeochemistry
Ecology
Ecosystems
Geoderma
Global Change Biology
Journal of Geophysical Research-Biogeosciences
Plant and Soil
Pedosphere
Soil Biology and Biochemistry
Soil Science Society of America Journal

2015 PROmoting Geoscience Research & SuccesS
Mentor for female undergraduate earth science students

2013 University of New Hampshire
Presenter for UNH Tech Camp: UNH Engineeristas Girls & Engineering

2011 University of New Hampshire
Judge for Undergraduate Research Conference Interdisciplinary Science and Engineering Symposium

2010-2011 Huron River Watershed Council, Ann Arbor, MI
Volunteer as a plant identification expert for the Bioreserve Project's field assessments

2008-2009 University of Minnesota, St. Paul, MN
President, Teaching SMART
Officer, Teaching SMART

2004-2009 Minnesota Academy of Science
Undergraduate Science Symposium, Judge
Volunteer for the Minnesota Regional Science Bowl
Judge for Minnesota State Science Fair competitions in Geology, Physics and Biology

2004-2009 University of Minnesota, St. Paul, MN
Leader, Center for Outdoor Adventure

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

American Geophysical Union
Ecological Society of America
NACADA
Earth Science Women's Network