

Meghan A. Dovick, Associate Instructor  
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## EDUCATION

PhD in Geology May 2016	<b>Binghamton University</b> , Binghamton, New York Dissertation Advisor: Dr. Thomas R. Kulp <u>Dissertation Title</u> : Environmental and microbiological controls on the trophic transfer of arsenic and antimony among tadpoles and other freshwater organisms.
Master of Studies August of 2008	<b>Vermont Law School</b> , South Royalton, Vermont Environmental Law and Policy. <u>Areas of Extended Study</u> : water resource law, ocean and coastal law, legal writing, public land management.
Bachelor of Science May of 2007	<b>Central Michigan University</b> , Mount Pleasant, Michigan Double Major: Biology and Environmental Studies Honors: Magna Cum Laude.

## PROFESSIONAL EXPERIENCE

Administrator IGCS May 2019-Present	<b>University of Utah, Global Change and Sustainability Center</b> , Salt Lake City, UT <i>Currently administrator and advisor to the Interdisciplinary Graduate Certificate in Sustainability (IGCS) Program through the Global Change and Sustainability Center.</i>
Consultant - ACCESS program May 2019-July 2019	<b>University of Utah, ACCESS</b> - supporting women in science, Salt Lake City, UT <i>Environmental and policy consultant for reformulating program curriculum.</i>
Research Mentor May 2014-May 2015	<b>Howard Hughes Medical Institute Interdisciplinary Research Program</b> <i>(grant based)</i> , through SUNY Binghamton University, Binghamton, New York
Grant Program Director II November 2010- February 2012	<b>New York State Energy Research and Development Authority</b> <i>(grant based)</i> SUNY Broome Community College, Binghamton, New York

## TEACHING EXPERIENCE

Associate Instructor <i>Lecturer</i> Fall 2020-Present	<b>University of Utah, Professional Master in Science &amp; Technology</b> , Salt Lake City, UT <i>Currently developing and teaching graduate courses to complement the PMST program.</i>
	<ul style="list-style-type: none"> <li>• Policy &amp; Regulatory Considerations for Scientists and Engineers, MST 6100</li> <li>• Professional Development for Scientists and Engineers, MST 6200</li> <li>• Environmental Field Methods, Analysis, and Broader Impacts, MST 6XXX</li> </ul>

Associate Instructor	<b>University of Utah, Global Change and Sustainability Center</b> , Salt Lake City, UT
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- Lecturer*  
Fall 2018-Present
- Currently teaching graduate courses centered around sustainability.*
- Sustainability Reporting, SUST 6900; special topics
  - Air Quality Scholarship Program, SUST 6900; special topics
  - Global Changes and Society, SUST 6000
  - Sustainability Seminar, SUST 6800
- Teaching Assistant  
Fall 2011-  
Spring 2015
- Binghamton University, Department of Geological Sciences and Environmental Studies**, Binghamton, New York  
*Assisted in teaching-related activities. Instructed laboratory assignments, graded lab reports, met with and mentored students*
- Rock Record and Earth History, GEOL 213
  - The Environment; Man/Woman and Physical Aspects, ENVI 201
  - Earth Surface Processes, GEOL 211
  - Planet Earth, GEOL 111
  - Paleobiology, GEOL 366
- Adjunct Instructor  
Spring 2010
- Binghamton University, Department of Geological Sciences and Environmental Studies**, Binghamton, New York  
*Taught and instructed lectures and course simulations on related topics. Prepared lectures, exams, and course activities.*
- Environmental Policy and Planning, ENVI 239
- Adjunct Instructor  
Spring 2009-  
Spring 2013
- Broome Community College, Department of Physical Sciences**, Binghamton, New York  
*Taught and instructed lectures and class discussions on related topics. Prepared lectures, exams, and course activities. Graded assignments and met with students.*
- Environmental Policy, ENV 210
  - Environmental Seminar, ENV 290
  - Global Warming; Energy and the Environment (with lab), PHS 116

## PUBLICATIONS

**Dovick**, Meghan A., Arkle, Robert S., Kulp, Thomas R., and Pilliod, David S. 2020. Extreme Arsenic and Antimony Uptake and Tolerance in Toad Tadpoles during Development in Highly Contaminated Wetlands. *Environ Sci and Tech.* **54** (13): 7983-7991.

**Dovick**, Meghan A., Kulp, Thomas R., Pilliod, David S., and Arkle, Robert S. 2015. Bioaccumulation trends of arsenic and antimony in a freshwater ecosystem impacted by mine drainage. *Environ Chem.* **13**: 149-159.

**Dovick**, Meghan A., and Kulp, Thomas R., (in prep). Dissimilatory Sb(V) reduction coupled to the oxidation of lactate and hydrogen by a novel species of *Clostridium*.

## PROFESSIONAL PRESENTATIONS

**Dovick**, Meghan A., and Vickers, Tanya M., October 2019, invited speaker. Educating the Connection: how to integrate energy, climate, and sustainability into our educational experiences. Clark Planetarium, Salt Lake City, Utah.

**Dovick**, Meghan A., July 2017, invited speaker. Living to the Extreme: how freshwater organisms survive and thrive in arsenic and antimony contaminated water. Central Michigan University, Beaver Island Biological Station, Beaver Island, Michigan.

**Dovick, Meghan A., and Kulp, Thomas R.,** November 2015, Minerals made by microbes that metabolize antimony (Sb) under anoxic conditions. Geological Society of America Annual Meeting, Baltimore, Maryland.

**Dovick, Meghan A.,** April 2015, invited speaker. The influence of microorganisms in extreme environments: a geomicrobiological and environmental study from an Idaho arsenic and antimony contaminated mining site. West Virginia University, West Virginia.

**Dovick, Meghan A., and Kulp, Thomas R.,** December 2013, Dissimilatory Sb(V) reduction by microorganisms isolated from Sb-contaminated sediment. American Geophysical Union Annual Meeting, San Francisco, California.

## PROFESSIONAL INVOLVEMENT & TRAINING

- **National Professional Science Master's Association;** Elected Board of Directors. 2021 – present.
- **Professional Certification in Global Reporting Initiative Standards (GRI).** Sustainability Reporting. May 2021. In progress.
- **Sustainability Education Advisory Committee (SEAC),** University of Utah; member. 2019 – present.
- **Sustainable Campus Initiative Fund (SCIF),** University of Utah; small grant allocation review committee. 2019 – 2021.
- **Wasatch Experience,** University of Utah; sustainability teaching workshop participant. May 2019.

## GRADUATE STUDENT COMMITTEES

**Emily Frary, MS.** Professional Master of Science and Technology, University of Utah. *Mapping of Radionuclides in Drinking Water and Radon in Utah Homes.* Completed, Spring 2020.

**Amy Flowers, MS.** Professional Master of Science and Technology, University of Utah. *Assessing and Reporting on Climate Resilience at the University of Utah.* Completed, Spring 2021.

**Tiffanie Fogel, MS.** Department of Parks, Recreation and Tourism, University of Utah. *Creating an Outdoor Program for Salt Lake's Refugee Population.* Completed, Spring 2021.

**Makaylah Respicio, MS.** Professional Master of Science and Technology, University of Utah. *The Future of Fleet Block: Incorporating Environmental Health & Equity in Urban Policy.* Date of Intended Completion, Spring 2022.

**April Furin, MS.** Professional Master of Science and Technology, University of Utah. *Determining USANA Health Sciences' Carbon Footprint.* Date of Intended Completion, Spring 2022.

**Mitchel Jenkins, MS.** Professional Master of Science and Technology, University of Utah. *Analyzing Cinnamon Teal Habitat Data and Waterfowl Banding Field Operations Data from Northern Utah Waterfowl Management Areas.* Date of Intended Completion, Spring 2022.

**Kristen Stringham, MS.** Professional Master of Science and Technology, University of Utah. *A Survey of Invasive Trees in a Residential Setting.* Date of Intended Completion, Spring 2022.

**Sierra Krippner, MS.** Professional Master of Science and Technology, University of Utah. *Thesis Topic TBD.* Date of Intended Completion, Spring 2022.