

Britt Huhmann

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EDUCATION

Massachusetts Institute of Technology Ph.D. Candidate in Civil and Environmental Engineering Science, Technology, and Policy Graduate Certificate National Science Foundation Graduate Research Fellow GPA 5.00/5.00	Cambridge, MA Expected 2019
The University of Iowa M.S. in Civil and Environmental Engineering GPA 4.00/4.00	Iowa City, IA 2013
Washington University in St. Louis B.A. in Earth and Planetary Sciences Pathfinder Program in environmental policy and science <i>Ernest J. Ohle Award</i> for most promising graduate in Earth and Planetary Sciences Summa Cum Laude, GPA 3.99/4.00	St. Louis, MO 2010

COMPUTER SKILLS

Microsoft Office (Word, PowerPoint, Excel), Matlab, ArcMap, Google Drive, Dropbox, OneDrive

RESEARCH EXPERIENCE

Hydrology Research Assistant – Massachusetts Institute of Technology <ul style="list-style-type: none">Quantify the impacts of soil arsenic on rice yield in Bangladesh using field experiments, soil analysis with X-ray fluorescence spectroscopy, and data analysis in Excel and ArcMap.Coordinate discussions with collaborators at five universities across the US and in Bangladesh.Develop statistical models in Matlab to determine factors affecting people's decisions to stop drinking from high-arsenic wells.	2013-Present
Environmental Geochemistry Research Assistant – The University of Iowa <ul style="list-style-type: none">Demonstrated arsenic sequestration by iron minerals using anaerobic chamber experiments, X-ray diffraction, ICP-MS, and X-ray absorption spectroscopy and presented my findings at two international conferences.Contributed to GIS analyses and on-foot surveys of rainwater harvesting and irrigation systems in Southern India, laying the groundwork for a publication and continued research.	2011-2013
Stream Geomorphology Trainee – US Geological Survey <ul style="list-style-type: none">Contributed geospatial analyses, figures, and text for two publications on stream geomorphology used to inform management decisions by the US Army Corps of Engineers and the US Fish and Wildlife Service.	2008-2010
Aqueous Geochemistry Research Assistant – Washington University <ul style="list-style-type: none">Contributed to two peer-reviewed journal articles on toxic element release during coal ash storage.	2008-2010

POLICY EXPERIENCE

State and Local Affairs Chair – MIT Graduate Student Council (GSC) <ul style="list-style-type: none">Lead teams of students on twice-yearly advocacy days to the Massachusetts legislature.Collaboratively write advocacy letters and op-eds that have contributed to the passage of legislation supporting entrepreneurship, LGBT nondiscrimination, and gender equity.Coordinate attendance at city meetings and letters to city officials that have contributed to revisions of local zoning policy.Lead discussions on GSC advocacy priorities that have expanded the scope of our policy platform.	2013-Present
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- Arsenic Policy Advocate** 2014-2016
- Proposed a bill to improve arsenic testing and education in Iowa resulting in the introduction of legislation by a state representative.
 - Sought and incorporated input from government agencies on the bill's content and from NGOs on advocacy strategy.
- Geoscience Policy Intern** – American Geosciences Institute (AGI) 2013
- Contributed geoscience policy articles to *The Professional Geologist*, *EARTH Magazine*, and *The American Association of Petroleum Geologists Energy Policy Blog*.
 - Redesigned the Natural Hazards Caucus website and prepared fact sheets on solar storms, wildfires, tornados, and hurricanes for distribution to members of Congress.
 - Wrote 200-800 word summaries of Congressional hearings and policy developments for the AGI website.
- Student Consultant** – Interdisciplinary Environmental Law Clinic 2010
- Prepared memoranda on water chemistry, flood hazards, and state and federal regulations to equip our legal team to oppose the construction of a landfill in the Mississippi River floodplain.
 - Wrote a letter to the Illinois Environmental Protection Agency demonstrating that the proposed landfill did not have the required permits.
- Science and Outreach Assistant** – Missouri Coalition for the Environment 2007-2010
- Summarized information on contaminated sites and on the economic benefits of clean waters to prepare the staff for legal and advocacy campaigns.
 - Edited the monthly newsletter, updated website content, and created a database of state and local news outlets resulting in improved outreach and communications.

LEADERSHIP EXPERIENCE

- Mentoring Committee Member** – Graduate Women at MIT 2013-2015
- Recruited mentors, enabling 200 graduate women to be mentored in their fields of interest.
 - Designed surveys to solicit feedback from mentors and mentees that led to program improvements, including the addition of new events and the inclusion of male mentors for the first time.
 - Created a handout on productive mentoring relationships that was adopted by other MIT programs.
- Critical Mentoring and Student Support (Critical MASS) Mentor** – The University of Iowa 2012-2013
- Used motivational interviewing to help students who had violated the Code of Student Life to identify and pursue their academic and career goals.
- Administrative Assistant (AmeriCorps)** – Dorothy Day House 2010-2011
- Led teams of 10-15 volunteers to plan, prepare, and serve nutritionally balanced meals each weeknight for up to 100 guests.
 - Organized teams of 5-7 volunteers to plan monthly social justice roundtables, manage a community garden, provide weekly shower opportunities, and run an annual flu vaccination campaign.

RESEARCH PUBLICATIONS

- Catalano, J.G.; **Huhmann, B.L.**; Luo, Y.; Mitnick, E.H.; Slavney, A.; Wang, F.; Giammar, D.E. Metal Release and Speciation Changes during Wet Aging of Coal Fly Ashes. *Environ. Sci. Technol.* **2012**, DOI: 10.1021/es302807b.
- Luo, Y.; Giammar, D.E.; **Huhmann, B.L.**; and Catalano, J.G. Speciation of Selenium, Arsenic, and Zinc in Class C Fly Ash. *Energy Fuels.* **2011**, 25 (7), pp 2980-2987, DOI: 10.1021/ef2005496.
- Jacobson, R.B.; Elliott, C.M.; and **Huhmann, B.L.** Development of a channel classification to evaluate potential for cottonwood restoration, lower segments of the Middle Missouri River, South Dakota and Nebraska: U.S. Geological Survey Scientific Investigations Report 2010–5208. **2010**, 38 p.
- Elliott, C.M.; **Huhmann, B.L.**; Jacobson, R.B. Geomorphic Classification of the Lower Platte River, Nebraska: U.S. Geological Survey Scientific Investigations Report 2009–5198. **2009**, 29 p.

RESEARCH PRESENTATIONS

5 first author presentations; 2 first author posters; 3 co-author presentations; 1 co-author poster