Matthew Wilfong

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CONTACT INFORMATION

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PROFESSIONAL FOCUS

I am highly interdisciplinary scholar focused on teaching and research centered on water-society relationships. My teaching aims to promote students who think critically and holistically, particularly using water as a medium. My research seeks to harness transdisciplinary frameworks and methodologies to conduct problem-based research towards solving issues arising within human-water systems. Broadly, my work aims to understand the inherent connection between water and society, especially the political and power dynamics involved within water governance and management.

EDUCATION

University of Maryland, College Park, MD — Aug. 2018 - May 2022

- Ph.D. in Environmental Science and Technology
  Dissertation - *Decentralizing Stormwater Management: Shifting Infrastructure and Evolving Hydrosocial Relationships*

Towson University, Towson, MD — Aug. 2015 - Dec. 2017

- M.S in Environmental Science
  Thesis - *Performance of Commercially Available Soil Amendments for Enhanced Removal of Copper in Bioretention Media*

Washington College, Chestertown, MD — Aug. 2011 - May 2015

- B.S in Chemistry and B.A in Environmental Studies
  Determining Trace Metal Concentrations in Estuarine Sediments of the Chester River using Aluminum as a Reference Element.

PROFESSIONAL EXPERIENCE

St Mary's College of Maryland — Aug. 2023 - Current

- Visiting Assistant Professor of Environmental Studies

School of Sustainability - Arizona State University — Aug. 2022 - Aug. 2023

- Postdoctoral Research Scholar
- Advisor: Dr. Diane Pataki

Urban Ecology Lab - University of Maryland — Aug. 2018 - May 2022

- Graduate Research Assistant and Teaching Assistant
- Advisors: Dr. Mitchell Pavao-Zuckerman and Dr. Michael Paolisso

Urban Environmental Biogeochemistry Lab - Towson University — Aug. 2015 - Dec. 2017

- Graduate Research Assistant and Teaching Assistant
- Advisors: Dr. David Ownby and Dr. Ryan Casey

PUBLICATIONS

1. *Introduction: Applying Anthropology to Water*
   M Wilfong, M Paolisso, J Trombley
   Human Organization - Sept. 2023
2. *Special Issue: Applied Anthropology of Water*
   Guest Co-Editors: M Paolisso, **M Wilfong**, J Trombley
   Human Organization - Sept. 2023
3. *Shifting Paradigms in Stormwater Management –Hydrosocial Relations and Stormwater Hydrocitizenship*
   M Wilfong, M Paolisso, D Patra, M Pavao-Zuckerman, P Leisnham
   Journal of Environmental Policy and Planning - Jan. 2023
4. *Diffusing Responsibility, Decentralizing Infrastructure: Hydrosocial Relationships within the Shifting Stormwater Management Paradigm*
   M Wilfong, D Patra, M Pavao-Zuckerman, P Leisnham
   Journal of Environmental Planning and Management - Oct. 2022

5. *State Factors Control Progressive Stages of Freshwater Salinization Syndrome*
S Kaushal, P Mayer, G Likens, J Reimer, C Maas, M Rippy, S Grant, I Hart, R Utz, R Shatkay, B Wessel, C Maiett, M Pace, S Duan, W Boger, A Yaculak, J Galella, K Wood, C Morel, W Nguyen, S Querubin , R Sukert, A Lowien, A Wellman-Houde, A Roussel, A Houston, A Cacopardo, C Ho, H Wendlandt, J Widmer, J Slagle, J Bader, J Chong, J Wollney, J Kim, L Shepherd, **M Wilfong**, M Houlihan, N Sedghi, R Butcher, S Chaudhary, and W Becker
Limnology and Oceanography Letters - Mar. 2022

6. *Performance of Commercially Available Soil Amendments for Enhanced Copper Attenuation in Bioretention Media*
M Wilfong, DR Ownby, RE Casey
Journal of Environmental Management - Jun. 2021

7. *Rethinking Stormwater: Analysis using the Hydrosocial Cycle*
M Wilfong, M Pavao-Zuckerman
Water - Apr. 2020

In Review

1. *Comparison of Evapotranspiration and Irrigation of Residential Turfgrass Lawns across the United States*
M Wilfong, E Litvak, N Grijseels, D Kucera, K Hamilton, D Jenertte, D Pataki
Water Research Resources - Aug. 2023

In Prep

1. *Conserving Water for Who? - Hydrosocial Relationships within Residential Xeriscaping and Water Conservation in Arizona*
M Wilfong, D Pataki

2. *Investigating the Hydrologic Performance of Decentralized Stormwater Best Management* Practices at the Treatment Train Scale
M Wilfong, K Hopkins, M Pavao-Zuckerman

Presentations

1. *Using Anthropology for Environmental Policy and Action: Skill and Training Needs*
M Wilfong - Panelist
Society for Applied Anthropology Annual Meeting - Cincinnati, Ohio - Mar. 2023

2. *Multifaceted Water Insecurity: Local and Regional Concerns for Health, Equity, and Justice, Parts I and II*
M Wilfong and A Roque - Co-Session Organizers
Society for Applied Anthropology Annual Meeting - Cincinnati, Ohio - Mar. 2023

3. *The "Hydrocitizen" and Why Anthropology is Key to Water Quality*
M Wilfong - Invited Speaker
York River and Small Coastal Basins Roundtable - Gloucester Point, VA - May 2022

4. *Diffusing Responsibility, Decentralizing Infrastructure: Hydrosocial Relationships within the Shifting Stormwater Management Paradigm*
M Wilfong, M Paolisso D Patra, M Pavao-Zuckerman, P Leisnham
Society for Applied Anthropology Annual Meeting - Salt Lake City, UT - Mar. 2022

5. *Rethinking Stormwater: An Analysis using the Hydrosocial Cycle*
M Wilfong, M Pavao-Zuckerman
Society for Applied Anthropology Annual Meeting - Virtual - Mar. 2021

6. *Performance of Commercially Available Soil Amendments for Enhanced Copper Attenuation in Bioretention Media*
M Wilfong, DR Ownby, RE Casey
Society for Environmental Toxicology and Chemistry - Orlando, FL - Nov. 2017

Teaching Experience

St Mary's College of Maryland

- ENST283 - Race and Place: Urban Environmental Justice — Fall 2023
  - Course designed to examine and explore issues of environmental justice centered in urbanized environments using approaches from urban ecology, urban political ecology, and critical science and technology studies.

- ENST385 - Water and Society Fall 2023
  - Course designed to explore the complex and ever-changing relationships between society and the natural world using water as a medium and centered on a hydrosocial approach.
- ENST490 - Junior Seminar for Environmental Studies Fall 2023
  - Course designed to prepare students for post-undergraduate careers by developing skills in research, resume building, and critical thinking.

University of Maryland

- ENST360 - Ecosystem Ecology Fall 2021
  - Led discussions utilizing variety of methods to promote active engagement and supplemental and reinforced learning of lecture materials.
- ENST104 - Intro to Environmental Health Fall 2020
  - Led fully remote discussions focused on real-world applications of complex public and environmental health research and problem-solving.

Towson University

- CHE 121L - Chemistry I Lab - **as Adjunct Professor** Spring 2018
  - Led and instructed students in basic chemistry lab focused on applying lecture-based theory in laboratory practice.
- CHE 211L - Chemistry II Lab - **as Adjunct Professor** Spring 2018
  - Led and instructed students in basic chemistry lab focused on applying lecture-based theory in laboratory practice.
- ENV104 - Intro to Environmental Chemsitry Lab Fall 2015, 2016, 2017
  - Led and instructed students focused on applying environmental chemistry to real-world examples through laboratory experimentation.

Grants

1. Maryland Sea Grant Research Support Grant 2019-2020
   Assessing the Ecohydrological Performance of Stormwater Green Infrastructure Treatment Trains at the Subwatershed Scale in Montgomery County, MD
   M Pavao-Zuckerman (PI, advisor) and **M Wilfong** (Co-PI) - **$ 9,996**