ALLISA G. HASTIE

✉ ahastie2 AT stanford.edu

EDUCATION

Stanford University *Estimated Graduation in 2026*
Ph.D. Civil and Environmental Engineering
Advisor: Dr. Khalid K. Osman
Dissertation Title: *A Community-Based Approach for Assessing Water and Wastewater System Performance.*

University of Illinois Urbana-Champaign *May 2022*
M.S. Civil and Environmental Engineering
Advisor: Dr. Ashlynn S. Stillwell
Thesis: *Opportunities for Non-Potable Water Reuse in the United States Based on a Supply-Demand Assessment and Review of State Policies*

University of Illinois Urbana-Champaign *May 2020*
B.S. Civil and Environmental Engineering
Minor in Environmental Economics and Law

PUBLICATIONS

1. **Hastie, Allisa G.,** Mendoza-Grijalva, Lorelay, Gong, Meili, Rojas Cala, Brenda, hunter, Brandon, Wallace, Stephanie, Mejia, Rojelio, Flowers, Catherine, Osman, Khalid K., and Tarpeh, Will A. "Insights from A Mixed-Methods Examination of Rural Sanitation Failures." *Nature Water* (2025) [Submitted]
2. **Hastie, Allisa G.,** Skerker, Jenny, Fletcher, Sarah, and Osman, Khalid K. "Community-based affordability assessment reveals the cost burden of bottled and filtered water" *Nature Water* (2025) [Submitted]
3. **Hastie, Allisa G.**, Pierce, Greg, and Osman, Khalid K. "Assessing the role of drinking water system consolidations in advancing the Human Right to Water in California." *Utilities Policy* (2025) [In Prep]
4. **Hastie, Allisa G.**, Otrubina, Victoria V., and Stillwell, Ashlynn S. "Identifying Opportunities for Non-potable Water Reuse Based on Potential Supplies and Demands in the United States." *ACS ES&T Water* (2023), https://doi.org/10.1021/acsestwater.2c00341
5. **Hastie, Allisa G.**, Otrubina, Victoria V., and Stillwell, Ashlynn S. "Lack of Clarity Around Policies, Data Management, and Infrastructure May Hinder Efficient Use of Reclaimed Water Resources in the United States." *ACS ES&T Water* 2.12 (2022): 2289-2296, https://doi.org/10.1021/acsestwater.2c00307
6. **Hastie, Allisa G.**, Chini, Christpher M., and Stillwell, Ashlynn S. "A mass balance approach to urban water analysis using multi-resolution data." *Journal of Industrial Ecology* 26.1 (2022): 213-224. https://doi.org/10.1111/jiec.12995

CONFERENCE PRESENTATIONS

[15] World Environmental and Water Resources Congress (2025). *Examining non-billed water costs to improve water affordability assessments*, Anchorage, AK

[14] World Environmental and Water Resources Congress (2025). *Humans as sensors: using resident observation to assess tap water quality in frontline communities*, Anchorage, AK

[13] World Environmental and Water Resource Congress (2024). *In Our Own Backyards: Assessing Septic Failures in the Rural South Through Community Engaged Research*, Milwaukee, WI

[**12**] American Geophysical Union Fall Meeting (2023). *When it rains it pours: A community-based study of drinking water affordability*, San Francisco, CA

[**11**] Canadian Society of Civil Engineers Annual Conference (2023). *Assessing the Effectiveness of Drinking Water Consolidation in Ensuring the Human Right to Water in California, USA*, Moncton, NB Canada

[**10**] American Geophysical Union Fall Meeting (2022). *Lessons from a review of state-level water reuse policies in the United States*, Chicago, IL

[**9**] World Environmental and Water Resource Congress (2022), *Framework for pricing non-potable recycled water at the municipal scale*, Atlanta, GA

[**8**] American Geophysical Union Fall Meeting (2021), *A Spatial Analysis to Identify Opportunities for Water Reuse in the United States*, New Orleans, LA

[**7**] National Taiwan University-University of Illinois Research Webinar "Urban Sustainability from a Food-Energy-Water Nexus Perspective" (2021), *Identifying Opportunities for Non-Potable Water Reuse within the Food-Energy-Water Nexus*, Virtual*

[**6**] World Environmental and Water Resources Congress (2021), *Geographic suitability analysis of non-potable reclaimed water use in the United States*, Virtual

[**5**] Researcher's Initiative Symposium (2019), Urbana, IL*

[**4**] Illinois Undergraduate Research Symposium (2019), *Challenges of Developing Reclaimed Water Markets in the United States*, Urbana, IL

[**3**] World Environmental and Water Resources Congress (2018), *The Challenges of Integrating Urban Water and Energy Data*, Minneapolis, MN

[**2**] Illinois Undergraduate Research Symposium (2018), *The Challenges of Integrating Urban Water and Energy Data*, Urbana, IL

[**1**] Researcher's Initiative Symposium (2017), *Social Equity of Urban Water Rates in the Midwest*, Urbana, IL

*Invited Speaker

COMMUNITY PRODUCTS

East Palo Alto Water Billing Informational Magnets	*Feb 2024*
We the Youth of Detroit Water Quality Presentation and Sampling Training	*June 2024*
Greenhills School Water Quality Workshop	*Apr 2025*
Household Tap Water Quality Reports	*Aug 2025*

FUNDING

Community Engagement Impact Fund Award ‡ *2024 - Present*
Advancing Water Systems Failure Identification: Using Humans as Sensors to Reduce Inequities at the Tap

Stanford Impact Labs Stage 1: Seed Partnership ‡ *2023 - Present*
Advancing Water Systems Failure Identification: Using Humans as Sensors to Reduce Inequities at the Tap

NSF Graduate Research Fellow* *2020-Present*

Illinois Water Resources Center Research Grant* *2021*
Assessing the Feasibility of Non-Potable Water Reuse in Illinois

*PI or Lead Writer
‡Assisted in Writing

TEACHING AND MENTORSHIP

Teaching Assistant: SUSTAIN 101D: Sustainable Innovation for Disaster Reslience *Oct - Dec 2025*
Stanford Summer Undergraduate Research Fellowship *June - Aug. 2024*
Bill Lane Center for the American West Graduate Mentor *Jan. - Sept. 2024*
Foothill College Science Learning Institute Intern *Jul. 2023 - Aug. 2023*
Illinois Research Experience for Undergraduates Program Mentor *Sep. 2021 - May 2022*
Teaching Assistant: CEE 433 - Water Technology and Policy *Jan. 2021 - May 2021*
Research Experience for Undergraduates Program Mentor *Jan. 2020 - May 2021*
Undergraduate Research Ambassador *Aug. 2019 - May 2020*

WORKSHOPS AND RESEARCH TRAINING

Global Health Research Methods Workshop
Rising Leaders in Environmental Policy Program

SERVICE

EWRI Sustainability Committee leadership *2022-2025*
Journal Peer Reviewer
Environmental Science and Technology
Journal of Water Resources Planning and Management
Journal of Sustainable Water in the Built Environment
Water Security