ALLISA G. HASTIE

ahastie2@stanford.edu https://allisahastie.github.io/

EDUCATION

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

University of Illinois Urbana-Champaign
B.S. Civil and Environmental Engineering *May 2020*
Minor in Environmental Economics and Law
M.S. Civil and Environmental Engineering *May 2022*
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*

AWARDS AND HONORS

NSF Graduate Research Fellow* *2020-2025*
Rising Leaders in Environmental Policy Fellow *2024 - 2025*
Community Engagement Impact Fund Award ‡ *2024 - 2025*
Advancing Water Systems Failure Identification: Using Humans as Sensors to Reduce Inequities at the Tap
Stanford Impact Labs Stage 1: Seed Partnership ‡ *2023 - 2025*
Advancing Water Systems Failure Identification: Using Humans as Sensors to Reduce Inequities at the Tap
Illinois Water Resources Center Research Grant* *2021*
Assessing the Feasibility of Non-Potable Water Reuse in Illinois
DaRin Butz Foundation Scholarship For Women in Engineering *2019-20*
Engineering Diversity Scholarship *2019-20*
Undergraduate Research Certificate *2019*
Society of Women Engineers Community Service Member of the Year *2018*
Office of Undergraduate Research Travel Grant *2018*
University Achievement Scholarship *2016-20*

*PI or Lead Writer
‡Assisted in Writing

PUBLICATIONS

1. **Hastie, Allisa G.**, et al., "An analysis of tap water quality across vulnerable urban communities accounting for aesthetic and health-based contaminants." *Water Resources Research* (202X) *[In Prep]*
2. **Hastie, Allisa G.**, Pierce, Greg, and Osman, Khalid K. "Comparing Human Right to Water risks in consolidated and non-consolidated drinking water systems across California." *Utilities Policy* (202X) [*Under Review*]
3. **Hastie, Allisa G.,** Mendoza-Grijalva, Lorelay et al., "Insights from A Mixed-Methods Examination of Rural Sanitation Failures." *Nature Water* (2025) [*Under Review*]

4. **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) [*Under Review*]

5. **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

6. **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

7. **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

[**19**] World Environment and Water Resources Congress (2026). *Determining the Influence of Perceived Water Quality on Tap Distrust in Vulnerable Communities*

[**18**] American Geophysical Union Fall Meeting (2025). *Revealing variations in household tap water quality across space and time with implications for tap water distrust and bottled water reliance*, New Orleans Louisiana

[**17**] Stanford Environmental Policy Day (2025). *Strategies for increasing tap trust in vulnerable communities.* Stanford, CA

[**16**] California Water Data Summit (2025). *Lessons from sampling water at the tap,* Davis, CA

[**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

TEACHING AND MENTORSHIP

Teaching Assistant: Sustainable Innovation for Disaster Reslience	*FA 2025*
Stanford Summer Undergraduate Research Fellowship Mentor	*SUM 2024*
Bill Lane Center for the American West Graduate Mentor	*WIN/SPR/SUM 2024*
Foothill College Science Learning Institute Intern	*SUM 2023 and 2025*
Illinois Research Experience for Undergraduates Program Mentor	*2021 - 2022*
Teaching Assistant: Water Technology and Policy (Rated 'Excellent' by Students)	*WIN 2021*
Research Experience for Undergraduates Program Mentor	*WIN 2021*
Undergraduate Research Ambassador	*2019 - 2020*

COMMUNITY PRODUCTS

Detroit Household Water Quality Workshop and Office Hours: Hosted a virtual workshop with youthe leaders and community participants describing the results of our study with follow-up one-on-one sessions to talk through specific household-level concerns.

East Palo Alto Water Billing Informational Magnets: Designed refrigerator magnets in English and Spanish that describe billing structures, late fees, and assistance resources for the 3 water providers in the East Palo Alto community.

We the Youth of Detroit Water Quality Presentation and Sampling Training: Trained 15 youth leaders in our water sampling protocol and the fundamentals of urban drinking water systems and sources of contamination.

Greenhills School Water Quality Workshop: Trained 30 students in fundamentals of household tap water quality in the context of the history and emerging concerns in the City of Detroit. Students also tested tap water samples from across the city to assess its safety and cleanliness.

East Palo Alto Household Tap Water Quality Reports: Collaborated with partners, community members, and translators to develop in-depth household water quality reports and potential action items for 50 households in East Palo Alto.

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