

Nathalie Thelemaque

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Education

Doctor of Philosophy in Civil Engineering June 2024

The University of Washington | Seattle, Washington

GPA: 3.97/4.00

Graduate Advisor: Dr. Jessica Kaminsky

Bachelor of Science in Civil Engineering May 2020

The University of Florida | Gainesville, Florida

Minor in Sustainability and the Built Environment

GPA: 3.52/4.00

Research Experience

Graduate Researcher June 2020 – Present

University of Washington | Seattle, Washington

- Engaged in research that uses mixed methods to examine the relationship between critical infrastructure (i.e., drinking water, electrical, telecommunications) and the public as it relates to emergencies and sociodemographic factors. (Publications in EST, JWRPM; Research funded by UW Fellowships)

Undergraduate Researcher December 2019 – April -2020

Bob Graham Center for Public Service | Gainesville, Florida

- Examined impacts of climate change on a Liberty County, Florida using both quantitative and qualitative data for Barometer Florida, a tool that provides visitors and Florida residents with information regarding effects of global warming

MIT Summer Research Program (MSRP) | Cambridge, Massachusetts June — August 2019

- Advisor: Dr. Desiree Plata
- Analyzed over 100 groundwater samples to determine the relationship between hydrocarbons and hydraulic fracturing through the headspace equilibrium method and computations using linear regression with the Plata Lab (Publication in EST)

Publications

Journal Publications

1. **Thelemaque, N.** et al. “Identifying the Built, Natural, and Social Factors of Successful and Failed Rural Alaskan Water Projects: Perspectives from State and Regional Professionals.” Under review by ES&T Water.
2. Berglund, E., **Thelemaque, N.** et. al. “Water and Wastewater Systems and Utilities: Challenges and Opportunities during the COVID-19 Pandemic.” Journal of Water Resources Planning and Management, May 2021
3. Spearing, L., **Thelemaque, N.** et. al. “Implications of Social Distancing Policies on Drinking Water Infrastructure: An Overview of the Challenges to and Responses of US Utilities during the COVID-19 Pandemic.” ACS EST Water, December 2020
4. Li, Y., **Thelemaque, N.** et. al. “Groundwater Methane in Northeastern Pennsylvania Attributable to Thermogenic Sources and Hydrogeomorphologic Migration Pathways.” ACS EST Water, November 2021
5. **Thelemaque, N.** et al. “Understanding the Discrepancy Between Small, Medium, and Large Water Utilities within the Context of the COVID-19 Pandemic.” In progress
6. **Thelemaque, N.** et al. “Identifying the Built, Natural, and Social Factors that Define Successful and Failed Attributes of Rural Alaskan Water Projects.” In progress
7. **Thelemaque, N.** et al. “Water and Wellbeing: Correlating Water Source in Rural Alaska to Community Health.” In progress

Conference Publications

8. **Thelemaque, N.** et al., “Water Utilities and the COVID-19 Pandemic: A Review of Pandemic-Related Research.” Accepted by the Construction Research Council
9. Spearing, L., **Thelemaque, N.**, et. al. “Connecting Pre-existing Characteristics of Water Utilities to Impacts during the COVID-19 Pandemic.” Accepted by the Construction Research Council

Fellowships

William N. Allison Endowed Fund	2021
GO-MAP Fellowship	2020

Teaching Experience

CEE 420 – Engineering with Developing Communities March – June 2022
Grader | University of Washington

- Collaborated with course teaching assistant to design a class assignment focused on climate activism, graded coursework, and completed administrative tasks associated with the course

Mentoring Experience

- Mentor for WiSE Bridge Program, University of Washington undergraduate students Summer 2021 – Present
- Mentor for Rachel Pearson, University of Washington graduate student Summer 2021 – Present

Current status: Graduate Student in Jessica Kaminsky's research group

- Mentor for 14 high school students, MIT Online Science and Technology, and Engineering Community (MOSTEC) program
Current status: Different colleges and universities across the country including Harvard University, MIT, and UC Berkeley Summer 2021 – December 2021t
- Mentor for Natalie Franklin, University of Florida undergraduate student Fall 2018 – Spring 2020
- Mentor for Danielle Weisenfeld, University of Florida undergraduate student Fall 2018 – Spring 2020
- Mentor for 7 high school students, MIT's Engineering Experience program Summer 2017
Current status: Different colleges and universities across the country including Harvard University, MIT, and Tufts University

Service and Outreach

Team Lead

AVELA at the University of Washington

October 2021 – Present

- Developed an interactive curriculum on environmental engineering concepts for high-school students in partnership with Hip Hop is Green

Speaker and Mentor

WiSE at the University of Washington

July 2021 – Present

- Spoke on panels and provided insights on the graduate engineering experience to first and second-year engineering students at various events, including the WiSE bridge program and WiSE conference

Outreaching Grad

GSEE at the University of Washington

December 2020 – Present

- Worked with the Graduate Student Equity & Excellence office to recruit BIPOC students to the UW graduate school through presentations at prospective student events

Committee Member

Association of the Children of Regnier, Haiti

August 2015 - Present

- Assisted in the coordination of various fundraising initiatives for the non-profit organization to help raise over \$20,000 through the formation of fundraising galas, raffles, and book sales to provide tuition and food for deserving students in the region

Program Alumni Panelist

MIT Office of Outreach Programs, College Academy

2021

- Served as a panelist for multiple prospective/current student events to speak on experience as an underrepresented student in the engineering discipline

Honors and Awards

Outstanding Woman in DEI Advocacy , UW Society of Women Engineers	2022
GEM Associate Fellow , GEM National Consortium	2020
Fulfilling the Legacy Scholarship , National Society of Black Engineers	2019
1st Place Poster , National Society of Black Engineers Region 3 Conference	2019
Florida Academic Scholar , University of Florida	2016 - 2020
Ron Brown Captain , Ron Brown Scholars Program	2016

Presentations

Oral Presentations

1. **Thelemaque, N.**, “From Coast to Coast: Mapping Out Your Journey Through STEM” *WiSE Bridge Program, 2021*
2. **Thelemaque, N.**, “Imposter Syndrome and how to Deal with It” *CEE 307 Construction Engineering, 2021*
3. **Thelemaque, N.**, Li, Y., Bugher, N., Plata, D., “Something in the Water: Groundwater Methane Concentration in Relation to Hydraulic Fracturing.” *ARC 1000 Architecture and Humanity, 2019*
4. **Thelemaque, N.** et al., “Water Utilities and the COVID-19 Pandemic: A Review of Pandemic-Related Research.” Construction Institute and Construction Research Council Conference, March 2022

Poster Presentations

5. **Thelemaque, N.** et al., “Something in the Water: Groundwater Methane Concentration in Relation to Hydraulic Fracturing.” *NSBE Region 3 Technical Research Exhibition, 2019*
6. **Thelemaque, N.** et al., “Something in the Water: Groundwater Methane Concentration in Relation to Hydraulic Fracturing.” *MIT Summer Research Program Symposium, 2019*

Industry Experience

Structures Engineering Intern

May — August 2018

The Boeing Company | Seattle, Washington

- Interpolated data from previous aircraft and researched aircraft materials to compose a comprehensive stress note document analyzing a fitting on the side of body and wing joint on the 777x aircraft

Professional Memberships

National Society of Black Engineers	2016 – Present
American Society of Civil Engineers	2017 – Present