

Jeremy Lowe

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Education

- North Carolina State University - B.S. in Environmental Engineering - Class of 2021 **3.90 GPA**
- *Honors* – Caldwell Fellowship, Robert L. Hoffman Award, Les and Elaine Hall Water Environment Stewardship Scholarship, Barry & Linda Horton Scholarship, Thomas G. Coffey Scholarship

Research Experience

Undergraduate Research

November 2018 – Present

Primary Investigator: Dr. Angela Harris

- Conducted a systematic review to explore the implications of multiple drinking water source use globally.
- Served as a field researcher for a pilot study in Uganda and Kenya related to household water source use, fecal contamination pathways, and microbial source tracking. Piloted household survey instruments and processed fecal and water samples for further ddPCR analysis.
- Developed a protocol and device for dead-end ultrafiltration of large volumes of water for microbial analysis, implementing this device in field water sampling in Indonesia in February 2020.
- Lead the development of a questionnaire for a randomized-controlled trial in rural Western Uganda and the subsequent data analysis to evaluate the impact of the intervention.

Publications and Presentations

Publications

- S. Daly, **J. Lowe**, G. Hornsby, and A. Harris, “Multiple water source use in low-and middle-income countries: a systematic review,” 2021, doi: 10.2166/wh.2021.205.
- UNC Water Institute, “WASH Policy Research Digest: Issue #11, June 2019: Multiple Water Source Use,” 2019.
- **J. Lowe**, “The Mulberry Tree,” in Windhover LIV, 54, X. Smith, Ed. Windhover, 2020, pp. 32–33.

Presentations

- **J. Lowe**, A. Ercumen, C. Prottas, and A. Harris, “Exploring the Determinants and Indicators of Poultry Feces Management Behaviors in Rural Western Uganda,” poster presented at UNC Water and Health Conference, 2020.

Leadership and Development

Caldwell Fellows

February 2018 - Present

- Focused on character and leadership development, this prestigious fellowship aims to create the next generation of thoughtful servants and leaders. Each cohort consists of 25 students vetted by a rigorous application process.
- Lead diversity, equity, and inclusion work and civic conversations pertaining to racial justice across the program and greater community as part of the Campus Conversations Project.

President of Engineers Without Borders (EWB)

November 2018 – January 2020

- Lead the executive board and four project teams of NC State’s chapter of Engineers Without Borders in their mission of empowering communities and equipping leaders through sustainable engineering projects. Alongside my team, managed a budget of \$40,000+, completed implementation and monitoring phases of three projects, strengthened fundraising efforts through events and grant writing, formed partnerships with other like-minded organizations, and strengthened a community with high value on service and humility.

EWB Guatemala Water Systems Project

January 2018 – Present

- Designed, implemented, and monitored rainwater harvesting systems in the community of Caserio Panhux, Guatemala. Served in two implementation phases with the community to construct 34 total systems.

NCBI Leadership for Diversity Institute

November 2019

- Complete the Leadership for Diversity Institute organized by the National Coalition Building Institute that focuses in growing cultural competency and understanding how to build bridges. Awarded 25.5 NASW CE hours.

SATELLITE Director of Outreach

August 2018 – May 2019

- Communicated with high schools in all North Carolina counties in hopes of bringing rural high school sophomores to this week-long STEM and leadership exposure camp.

Service NC

July 2018 – August 2018

- Gained perspective on widespread migrant farmworker issues within North Carolina while leading a STEM summer camp for rural students at Siler City Elementary School.

Skills

Microsoft Office Suite | mWater | ODK | Python | R | Git | ArcGIS | Survey Design | Technical Writing
Public Speaking | Leadership | Mentoring | Fundraising