

EDUCATION

- University of Michigan**, School for Environment and Sustainability, Ann Arbor, MI **May 2022**
M.S. Environment & Sustainability | Specialization in Sustainable Systems
2021 Dow Sustainability Fellow
- Northwestern University**, McCormick School of Engineering & Applied Science, Evanston, IL **June 2017**
B.S. Environmental Engineering | Minor, Environmental Policy & Culture

WORK EXPERIENCE

- Ramboll (formerly Ramboll Environ/ENVIRON)**, Chicago, IL, *Consultant 2 and Consultant 3* **10/17 – Present**
- Conducted and supported environmental Life Cycle Assessments (LCAs) of products including a waste-to-energy system and mineral for cosmetics using SimaPro software and databases such as ecoinvent and AusLCI.
 - Supported ongoing greenhouse gas (GHG) accounting of solar and battery energy storage systems
 - Conducted Phase I Environmental Site Assessments (ESAs), environmental compliance, and Environmental, Social, and Governance (ESG) reviews of companies and properties ranging from commercial to heavy industry.
 - Supported litigation and environmental, health, and safety (EHS) compliance projects through research, data management and analysis in Excel, and report writing.
 - Trained new staff on steps of conducting Phase I ESAs and environmental compliance reviews.
- City of Evanston Public Works Department**, Evanston, IL, *Energy and Water Benchmarking Intern* **11/16 – 08/17**
- Supported implementation of the 2016 Energy and Water Benchmarking building ordinance through creation of a benchmarking guide, informational webpages, and internal databases and guidance documents.
 - Analyzed and summarized energy and water use data for public and commercial buildings using EPA's ENERGY STAR Portfolio Manager and Microsoft Excel.
- S&C Electric Company**, Chicago, IL, *EHS Intern* **06/16 – 08/16**
- Supported EHS programs, including wastewater treatment and monitoring, hazardous and nonhazardous waste management, safety compliance and training, and internal ISO 14001 audits.

PROJECTS & RESEARCH

- Master's Thesis**, University of Michigan School for Environment and Sustainability **10/20-Present**
- Investigating how and why US household carbon footprints vary geographically and across sociodemographic groups using analytical methods including geographic information systems (GIS) and multivariate statistical analysis
- Habitat for Humanity Carbon Mapping and Mitigation Program**, Dow Sustainability Fellows Program, *Fellow* **1/21-Present**
- Collaborated with 5-person team to research residential green building standards and interviewed members of Habitat for Humanity to develop recommendations for development of the Carbon Mapping and Mitigation program
- Lincoln Leaf Vertical Farm**, Senior Capstone Design (CIV_ENV 382), *Water Treatment Engineer* **04/17-06/17**
- Created 30% design of water infrastructure and treatment for commercial-scale aquaponics system, including estimating demand, analyzing design options, implementing water reduction strategies, and estimating costs.
 - Collaborated with 6+ team members and communicated design in report and oral presentation to professor panel.
- Water Quality in Pastaza River Valley**, Tungurahua Province, Ecuador, *Independent Researcher* **11/15**
- Tested and studied biological, physical, and chemical characteristics of three local rivers.
 - Wrote comparative analysis of river water quality, communicated findings in oral presentation.
- Engineers Without Borders (Northwestern University Chapter)**, *President and Project Co-Lead* **10/13 – 06/17**
- Led meetings, delegated tasks, and communicated with large interdisciplinary team. Wrote grant proposals for funds ranging from \$500-\$25,000.
 - Contributed to planning and implementation of a water distribution project in Kimuka, Kenya including alternatives analyses, project planning, system design, hydraulic and demand calculations, AutoCAD drawings.

CERTIFICATIONS & SKILLS

- **State of Illinois Professional Engineer Intern**, passed Fundamentals of Engineering exam in May 2018
- **Computer:** Microsoft Excel (including PowerPivot and PowerQuery), Word, and PowerPoint, SimaPro, ArcGIS, ENERGY STAR Portfolio Manager, MATLAB, Python, R & RStudio
- **Research/Field Methods:** Water sampling, environmental and property research methods, chemistry lab techniques, ecology field methods, literature reviews
- **Foreign Language:** Conversational Spanish
- **Writing:** Technical reports, proposals