

GENEVIEVE C. SCHUTZIUS

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Phone number available upon request

OBJECTIVE

I am an engineer with diverse field, research, and management experience capable of utilizing my technical and interpersonal skills to advance environmental engineering, global health, and social justice initiatives.

EDUCATION

Oregon State University (Corvallis, Oregon) Sep 2016 - Sep 2018

MS Environmental Engineering, Graduate Research and Teaching Assistant, GPA: 3.8/4.0

- Thesis: Persistence and Dissemination of Antibiotic Resistance from Septic Sludge in Vietnam
Field Work: December 2017 - March 2018, Ho Chi Minh City, Vietnam
- Advisor: Dr. Tala Navab-Daneshmand, Assistant Professor, Dept. of Chemical, Biological, and Environmental Engineering
- Teaching Assistant: ENGR 350 (Sustainable Engineering), CBEE 212 (Energy Balances), ENVE 4/556 (Sustainable Water Resources Development)

University of Colorado (Boulder, Colorado) Jan 2009 - Aug 2013

BS Environmental Engineering (Honors Program), French Minor, GPA: 3.4/4.0

- Semester Abroad: Center for International Educational Exchange (Paris, 2013)
- Summer Abroad: Appropriate and Sustainable Engineering for Developing Communities, Technion Institute of Technology (Haifa, Israel, 2011)
- Member of On the Rocks A Cappella, Society of Environmental Engineers
- Senior Design: Project Manager, Waste-to-Energy Treatment Plant Design in San Miguel County, Colorado (Jan - May 2012)

PROFESSIONAL EXPERIENCE

Air Basics (Denver, Colorado) May 2015 - May 2016

Air Quality Specialist

- Ensured timely oil and gas client compliance with federal and state air quality regulation (primarily Title V Permitting, Colorado Regulations 3 and 7, EPA STEM/LDAR, Greenhouse Gas and Quad O Reporting)
- Maintained client emission inventories and databases, completed thermodynamic emissions modeling (ProMax, EPA Tanks), submitted permit applications, modifications, and emission notices
- Conducted field visits to ensure compliance and inventory equipment for adequate permitting

Wind River Environmental Group (Denver, Colorado) Feb 2014 - May 2015

Junior Engineer

- Maintained emissions databases, performed on-site compliance inspections, assisted with technical forms and report writing
- Clients included oil and gas midstream/exploration and production operators, breweries, outdoor recreation resorts, building materials manufacturers, and power utility providers

Tetra Tech, MMI (Fort Collins, Colorado) May 2012 - Aug 2012

Geochemistry Intern

- Aided in analyses of Texas water wells to classify hydrocarbon sources as biogenic or anthropogenic
- Completed a soil sample separation and classification project
- Assisted in levee design for residential waterway

RESEARCH EXPERIENCE

- Oregon State University** (Corvallis, Oregon) Sep 2016 - Sep 2018
Graduate Research Assistant
- Used microbiological laboratory methods to study antibiotic resistant bacteria and genes in sludge, soil, and microcosms
 - Obtained IRB/CDC permit approval for field work conducted in Vietnam (Jan - Mar 2018) for sample collection and survey administration
 - Designed study and analyzed qualitative and quantitative data using Excel and R
 - Set up new environmental engineering laboratory, including protocol design, EHS compliance, and mentorship of graduate, undergraduate, and high school students
- University of Colorado Department of Environmental Engineering** (Boulder, Colorado) Sep 2012 - Dec 2012
Undergraduate Research Assistant
- Ran assays to assist in determination of the effects of advanced oxidation and photolytic processes on the activity of antibiotics in wastewater
- United States Geological Survey** (Boulder, Colorado) Mar 2010 - May 2012
Physical Science Technician, George Aiken Laboratory
- Prepared laboratory, handled and recorded water samples, and performed several analyses on water quality instruments to study the chemistry and hydrology of dissolved organic matter in water systems (Yukon River Basin, Gulf of Mexico post-Deepwater Horizon Spill)

PRESENTATIONS AND LECTURES

- Enteric antibiotic resistance from septic systems to environmental reservoirs in Vietnam** Apr & May 2018
Water Microbiology Conference (UNC Chapel Hill), Hydrophiles Symposium (Or. St. University)

VOLUNTEER WORK

- Graduate Student Association of Chem., Bio., and Enviro. Engineering** (Corvallis, Oregon) Jun 2017 - Jun 2018
Interdisciplinary Chair
- Planned events for the graduate students in CBEE, especially those that pertain to interdisciplinary/cross-campus involvement
- Bridges to Prosperity** (Shada, Haiti) May 2016
Field Volunteer
- Learned spoken Haitian Creole and assisted the Engineer-on-Site at planning, drawing, calculations, and delegation of construction tasks for a footbridge on the Grande-Anse River
- Rocky Mountain Fundraising Section of Water For People** (Denver, Colorado) Oct 2014 - May 2016
Oil and Gas Liaison, Education Outreach Lead, Webmaster, and Theme Event Chair
- Coordinated with sponsors and committee members to organize fundraising and educational events to support a global water and sanitation non-profit
 - Participated in 2015 Committees Workshop to understand the non-profit sector and effective fundraising and outreach strategies

SCHOLARSHIPS AND AWARDS

- 2016 Evans Family Fellow
2017 Wanda Munn Scholarship Recipient (via Society of Women Engineers)

SKILLS AND CERTIFICATIONS

- Engineer in Training (State of Colorado)
Proficient in Microsoft Suite (Office, Excel, PowerPoint, Access), Statistical analyses in R, HTML/CSS
Apt awareness and sensitivity in varied cultural settings
Effective communication and management in academic and business settings