**Stephanie Bone**

srbone@asu.edu• 480-540-5218

**Summary** A highly motivated and eager to work recent Environmental Engineering master's graduate interested in practicing research skills in real life application through an active career willing to relocate

**Education**

**­Environmental Engineering Master of Science**  *GPA: 3.38 May 2017*

Thesis | Ira A. Fulton Schools of Engineering | Arizona State University - Tempe, AZ

**Civil Engineering (Environmental Concentration) Bachelor of Science in Engineering** GPA: 3.31 *May 2016*

Barrett, The Honors College | Ira A. Fulton Schools of Engineering | Arizona State University - Tempe, AZ

**Study Abroad, National University of Singapore** *August-December 2014*

Full time student for a semester at the top 7th University in the world for Civil and Structural Engineering

**Details**

* Chi Epsilon Member | National Civil Engineering Honors Society, Society of Women Engineers active member
* Related Coursework: Water Resource Engineering, Environmental Biochemistry Water Treatment, Hydrology, Environmental Microbiology, Urban Water System Design, Life Cycle Assessment, Water Re-use and Reclamation

**Professional Development**

**Water Treatment Lab at ASU** *September 2017-present*

*Assistant Research Technologist with ASU assistant professor Dr. Francois Perreault*

* Concluding physisoprtion and chemisorption of T4 bacteriophage on modified silica particles experiments utilizing flow cytometry, fluorescence microscopy and transmission electron microscope methods
* Writing scientific paper to be published for scientific journal to be determined

**Water Treatment Lab at ASU** *August 2016 – September 2017*

*Graduate Student Researcher- Thesis research with ASU assistant professor Dr. Francois Perreault*

* Developing a novel methodological platform to study physicochemical interactions between waterborne viruses and bacteria
* Cultivating and analyzing E. coli and T4 bacteriophage on amine-functionalized silica surface

**Graduate Teaching Assistant** *August 2016- May 2017*

*Introduction to Environmental Engineering Laboratory*

* Conducted and demonstrated weekly laboratory water-related experiments to ninety, third year Civil Engineering students
* Provided instruction and guidance in course through weekly office hours

**Carbon and Nitrogen Dynamics Lab** *August 2013 - May 2016*

*Undergraduate Student Researcher* **-** *Carbon in Accidental Urban Wetlands*

*Honors thesis research with ASU professor Dr. Hilairy Hartnett in collaboration with ASU/NASA Space Grant*

* Produced and interpreted dissolved organic carbon analysis, fluorescence excitation-emission matrix (EEM) spectral analysis to investigate the transformation and transport of organic carbon in the Phoenix Metropolitan Area
* Performed water sampling, complete field notes on sites

**Kland Civil Engineers** *May - August 2015*

*Design Intern for Civil/Site Development Firm*

* Assisted engineer, project manager and drafter in producing high quality and feasible plans for several different clients
* Followed instructions, such as redlines, to edit on AutoCAD
* Responsible for administrative duties, which included filing and organizing company files and plans

**Volunteer Experience**

**Engineers Without Borders** (Phoenix Professional Chapter) *July 2013 -May 2017*

*Educational Lead/Spanish Translator for Carlos Pinto, Dominican Republic Assessment trip*

* Traveled on assessment trip to find a resolution for the 1300 locals with intermittent and contaminated water issues
* Conducted biological and chemical water testing and lead educational exercises aimed at teaching the community home water purification techniques

***EPICS***(Engineering Projects in Community Service) *May 2012 to May 2015*

*Team Leader*

* Developed an efficient method to obtain clean water for 300 students of Nyangoma School for the Deaf in Bondo, Kenya
* Designed prototype included a method to store, transport and purify large quantities of water quickly, using the rotation of wheels without the need of electricity

**Skills**

* Fluent in Spanish
* Microsoft Office Suite (Excel, PowerPoint, Word)
* Matlab, ArcGIS, EPANET, GS-USA, AutoCAD
* Water Quality Analysis, Microbiological Analysis
* FTIR Spectroscopy, Excitation-Emission Matrix (EEMs) Spectroscopy, Zeta Potential, High Temperature Combustion (HTCO)