

IBRAHIM N. IBRAHIM

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EDUCATION

Phoenix College

Associates in science and arts: 4.0 GPA

Valedictorian

PHI THETA KAPPA Honor Society member.

January 2016- December 2017

Arizona State University, West Campus

Majoring in
Biology and Biomedical research.

January 2018 - current

SKILLS AND INTERESTS

Computer Skills

MS. Word, MS. Excel, Ms. PowerPoint, and Video and Picture editing.

Laboratory Skills

Aseptic technique, Using a Scanning Electron Microscope (SEM), culturing media, etc.

Interests

Socializing - community work and volunteer work, books, traveling, and watching soccer.

PROJECTS

• Concentration of Nitrogen and Phosphorus on Algal growth

February 2016 - April 2016

Initial project

- I worked on determining the effects of added Nitrogen, added Phosphorus, and a combination of the two on the concentrations of Algal Growth in Rio Salado River and Encanto Park Lake after collecting samples from both water bodies.

• Isolation of Legionella species bacteria

February 2016 - April 2016

- The research included isolating and identifying the DNA of *Legionella spp.* bacteria gathered from windshield wiper fluid by using PCR to make copies. Towards the end of the project, the research team took time to educate others about the impacts of this bacteria after the isolation and identification process.

• Using DNA Sequencing to Identify Pseudomonas species, and its colonization on Environmental Microplastics

Major Project

- I am involved in isolating and identifying *Pseudomonas Spp.* (using SEM and various methods), particularly *Pseudomonas fluorescence*, and the part it plays in degrading different kinds of plastics such as plastic-type Polyvinyl chloride (PVC), Polypropylene (PP), Low-density polyethylene (LDPE) and Polystyrene (PS).

• Analysis of Pseudomonas species on Environmental Microplastics Utilizing Scanning Electron Microscopy (SEM) and DNA Sequencing

August 2017 – May 2018

Major Project

- Lead Researcher

- Bacteria is known to stick to plastics and make biofilms. The research being conducted is going to observe how *Pseudomonas* uses plastics as a nutrient source (Using SEM and various methods). Conducting this research can be resourceful for our environment to control the amount of plastics and bring us one step closer for a safer environment.

INTERNSHIP/TRAININGS

- **Western Alliance to Expand Student Opportunities (WAESO) scholar** August 2017 - Current

- WAESO is a regional alliance of community colleges, corporations, government laboratories, and professional societies led by the ASU HRC which seeks to expand student opportunities for community college students, undergraduate students, and entering graduate students in Arizona, Colorado, Nevada, and Utah.

- **S-STEM scholar** August 2017 – Current

- Every semester the NSF funded Phoenix College S-STEM Scholarship Program selects a group of students that are academic achievers, interested in STEM research, and pursuing STEM careers to receive a scholarship. Throughout the fall and spring semesters this group, called the S-STEM Scholars, engages in authentic STEM experiences, including research and internships, and presents this research to both our campus and the broader STEM community.

- **Center for Bio-mediated & Bio-inspired Geotechnics (CBBG)** May 21 – July 2017

- The Center for Bio-mediated and Bio-inspired Geotechnics (CBBG) seeks to understand and harness the scientific processes and principles of natural phenomena to develop more sustainable, safer, less intrusive, more resilient civil infrastructure systems. Currently I'm investigating on how to reduce hexavalent chromium (toxic) to trivalent chromium (less toxic) in contaminated soils using cultures of anaerobic bacteria.

POSITION OF RESPONSIBILITY

- **Lead Researcher** January 2016 - Current
WAESO

- Assist head mentor in organizing meetings, guide fellow researchers when performing experiments and assist lab technicians with setting up for routine experiments.
- Coach students on how to present their research.
- Train students on how to use laboratory equipment's.

EXTRA-CIRRICULAR ACTIVITIES/OUTREACH EXPERIENCE

- I was a member of URSA majors STEM club from 2016-2017.
- I was a volunteer for tutoring reading and mathematics for young adults at Kumon in 2016.
- I was the vice president of URSA majors STEM club during fall of 2017.
- During fall of 2017, I had participated in STEM workshops for the 2017 Hermanas conference, and TEC is for girls conference where I, along with other members, demonstrated different activities which involved science to show middle school girls that science can be fun and educational at the same time.

AWARDS

- WAESO – 1st place for poster presentation.
- Arizona Nevada academy of science, 62nd annual meeting – best poster presentation.