
ABIGAIL HARTMAN

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WEBSITE, PORTFOLIO, PROFILES

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PROFESSIONAL SUMMARY

Highly-motivated Stockton University graduate with a Bachelor of Science in environmental science. Currently have 3 years of lab experience, 3 years of field sampling experience, and 10 years of customer service. Diligent in performing technical work and developing project execution strategies. Dedicated to exploring global environmental challenges relating to hydrology, soil science, trace metal toxicity, and remediation.

SKILLS

- Microsoft Office
- ArcGIS
- Project Management
- Teamwork and Collaboration
- Research and Experimental design
- Analytical Skills
- Lab Equipment Maintenance

WORK HISTORY

Physical Geography Teaching Assistant, 01/2021 to 05/2021

Stockton University – Galloway, New Jersey

- Worked under direction of licensed professor in and outside of classroom.
- Prepared experimental procedures and distributed assignments and materials used in field labs.
- Supervised over 15 students during field labs and assisted on lab assignments.
- Kept abreast of latest information on soil science and fluvial geomorphology.
- Oversaw students in classroom to monitor, enforce rules and support lead professor.

Assistant Manager, 03/2018 to 03/2021

Flying Point Surf Shop – Atlantic City, New Jersey

- Developed loyal and highly satisfied customer base through proactive management of team customer service strategies.
- Strengthened merchandising and promotional strategies to drive customer engagement and boost sales.
- Completed regular inventory counts to verify stock levels, address discrepancies and forecast future needs.
- Set and enforced policies focused on increasing team productivity and strengthening operational efficiency for over 5 employees.

Soil Science Teaching Assistant, 09/2020 to 12/2020

Stockton University – Galloway, New Jersey

- Worked under direction of licensed professor in and outside of classroom.
- Partnered with professor to plan and implement lessons following school's curriculum, goals and objectives.
- Organized lab room, synthesized acid bath, and cleaned glassware used for lab assignments.
- Assisted in preparation of soil pits, experimental procedures, and take home lab kits.
- Supervised over 25 students and provided one-on-one and group-based learning support to maintain student progress and development.
- Offered complete instructional lab support for students unable to attend regular classes.

Organic Chemistry Teaching Assistant, 01/2020 to 05/2020

Stockton University – Galloway, New Jersey

- Worked under direction of licensed professor in classroom.
- Collated lab assignments and classroom materials to help professor prepare for daily instruction and activities.
- Distributed learning materials such as worksheets, lab instructions and prelab assignments.
- Supervised over 25 student's and maximized receptive learning by using hands-on instructional techniques.
- Operated Distillation Reflux Condenser for student's lab completion on student's experimental end products.

Soil Judging for the National Collegiate Soils Contest, 09/2020 to 11/2020

- Analyzed soil pits based on physical properties such as color, texture, particle size distribution, taxonomy, and landscape determinations.
- Analyzed soil pits based on chemical properties such as mineralogical composition, infrastructure limitations, and redoximorphic features.

EDUCATION

Bachelor of Science: Environmental Science, 05/2021

Stockton University - Galloway, NJ

- Minor in chemistry; Concentration in soil science and hydrology.
- Member of the Environmental Club
- Dean's List Spring 2021 GPA 3.57
- Dean's List Spring 2020 GPA 3.79
- Dean's List Spring 2018 GPA 3.68

AFFILIATIONS

- Member of Soil Science Society of America
- Member of the Licensed Site Remediation Professional Program
- Member of the Brownfield Coalition of the Northeast Program

Trace Metal Bioavailability in Vineyard Soils

(06/2020 - 05/2021)

- Presented at NAMS symposium (Spring 2021)
- Research Supervisor: Jessica Hallagan
- This work focused on lead (Pb), a common contaminant found in roadway soils and factors that influence its bioavailability to grapevines.
- Soluble Pb was extracted from soil samples using deionized water. Grape samples were digested for total Pb in nitric acid and analyzed using flame atomic absorption spectroscopy.
- Simple linear regression was employed to identify a correlation between soil Pb content, roadway proximity, and grape Pb content.

Vineyard Soil Chemistry

(06/2020 - 05/2021)

- Research Supervisor: Jessica Hallagan
- This work provided data used for "Trace Metal Bioavailability in Vineyard Soil" project.
- Analyzed particle size distribution, bulk density, and particle density; using the core method, and submersion method.
- Determined textural classifications and landscape determinations.

Roadway Soil Contaminants

(09/2019 - 05/2020)

- Research Supervisor: Jessica Hallagan
- This work focused on the solubility of trace metal contamination from car emissions and storm water runoff from roadways.
- Sampling sites were selected around Stockton Universities campus nearby intersections, varying in amount of traffic.
- Analyzed aggregate stability, particle size distribution, bulk density, and particle density; using the core method and submersion method.

Grapevine Soil Fertility

(06/2018 - 05/2019)

- Research Supervisor: Jessica Hallagan
- This work focused on soil fertility along grapevines and is based on particle size distribution, bulk density, organic matter, and textural determinations.
- Samples were gathered along linear transections located at Stockton Universities farm.
- Pretreated soil samples for mineralogical analysis; by removing organic matter, soluble salts, and carbonates.
- Analyzed bulk density and particle density; using the core method, submersion method, and field capacity/available water capacity.