Elmera Azadpour

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EDUCATION

Master of Environmental Science and Management (Expected June 2022)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
Specialization**:** Energy & Climate
Highlighted/Anticipated Coursework: Environmental Modeling, Earth System Science, Advanced Data Analyses for Environmental Science and Management, Climate Change Impacts and Adaptation
Awards: Forest Sustainability Fellowship

Honors Bachelor of Sciences in Environmental Biology, GPA 3.6 (December 2019)
University of Utah, Salt Lake City (SLC), Utah
Honor's Thesis: The effect of inorganic vs organic fertilizer on an urban lawn in Salt Lake City, Utah
Awards: Department of Biology Undergraduate Research Stipend, $1,000

MASTERS GROUP PROJECT

Creating a Region-wide Green Infrastructure Strategic Plan for Maunalua Bay (4/21-Present)
Role: Data Co-Manager | Client: Mālama Maunalua

- Co-Authored Data Management Plan
- Maintained the group's shared online information and managed the use of databases
- Organized data and created metadata so, after the project is completed, other users may access and utilize the data

PROFESSIONAL EXPERIENCE

Arnhold Environmental Graduate Fellowship (6/21-Present)
Environmental Market Solutions Lab (emLab) and Conservation International (CI), Santa Barbara, CA
Advisor: Dr. Ashley Larsen

- Managed spatial and remote sensing data related to land use/land cover, agriculture, climate, & biodiversity
  Developed and execute reproducible code for spatial and statistical analyses
- Gathered and review literature
- Contributed to presentations and publications
- Mentored undergraduate student researcher

WAter, VEgetation, & Society (WAVES) Laboratory Intern (6/21-Present)
Earth Research Institute (ERI), Santa Barbara, CA
Advisor: Dr. Kelly Caylor

- Investigated water use in riparian forests along Frances Rhône River
- Utilized remote sensing and raster data to identify long-term correlations between evapotranspiration and precipitation
- Conducted geospatial analyses in R

Spring Science Undergraduate Laboratory Intern (1/20-5/20)
Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA
Advisor: Dr. Lara Kueppers

- Conducted research project that analyzed the effects of rainfall gradients on future gross primary productivity (GPP) across the Isthmus of Panama to aid in the advancement of NGEE- Tropics project
- Extracted data from published literature and NOAA databases and analyzed the data in coding program R
- Compared empirical data to vegetation model (FATES) output to draw conclusions
- Generated data visualizations in R for 23-page final write up and poster presentation at LBNL

Summer Science Undergraduate Laboratory Intern (5/19-8/19)
Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA
Advisor: Dr. Trevor Keenan

- Organized literature review of photosynthetic capacity (V_{cmax}) plasticity observed within forest canopies to establish clear hypotheses for research project
- Collaborated with three lab team members on research project
- Generated data visualizations in R for 26-page final write up and poster presentation at LBNL
- Presented final poster at American Geophysical Union (AGU) 2019 conference and Ecological Society of America (ESA) 2020 conference

Research Associate (8/17-12/19)
Urban Ecology Research Lab, The University of Utah
Advisor: Dr. Diane Pataki

- Conducted three-month field campaign on University of Utah campus
- Collected soil and grass samples for δ15N, δ13C, %N and ANPP data analysis
- Executed various sample preparation techniques (KCl extractions, soil moisture, and preparing samples for mass spectrometer) and conducted statistical analyses in R
- Submitted 30-page honors thesis write up

PUBLICATIONS

Powell T; **Azadpour E**; Faybishenko B (2020): Wind speed data from NCEI Marcos A Gelabert station, Panama, Jan 2008 – Dec 2019. 1.0. NGEE Tropics Data Collection. (dataset). http://dx.doi.org/10.15486/ngt/1633769

CONFERENCES AND SEMINARS

Presented research papers at the following conferences: AGU, San Francisco, CA: “The effect of rainfall gradients on gross primary productivity (GPP) across the Isthmus of Panama” (December 2020); ESA, Salt Lake City, UT: "Constraints on Global Photosynthetic Capacity (Vcmax) Within Canopies" (August 2020); AGU, San Francisco, CA: "Constraints on Global Photosynthetic Capacity (Vcmax) Within Canopies" (December 2019)

Attended the following conferences: The Institut Pierre-Simon Laplace (IPSL), Climate Change: Challenges and Issues for the Earth Sciences, Paris, FR (July 2020); Berkeley Atmospheric Sciences Center (BASC) Symposium, Berkeley, CA (February 2020)

SKILLS AND AFFILIATIONS

Computer: R for Statistics, DB Browser for SQ Lite, Microsoft Office Suite, GitHub, ArcGIS, Land-Surface Modeling (ELM), Functionally Assembled Terrestrial Ecosystem Simulator (FATES), Google Earth Engine (GEE) Adobe Suite
Language: English (Native) and Farsi (Advanced Working Proficiency)
Affiliations: Student Member of Ecological Society of America, Student Member of American Geophysical Union, Diversity Scholar for R-Studio 2020 Conference, Student Member of Middle Eastern Resource Center