

Saba Juliet Saberi

Address: 5212 Sand Point Way NE, Seattle, WA 98105

Phone: (310) 592-0187 | Email: sjsaberi@uw.edu

Experience

University of Washington, Seattle, WA

July 02, 2017-June 15, 2019

Master's research: Interior Pacific Northwest burn severity assessment

- Implemented original research project creating burn severity maps using Landsat 8 imagery and quantitative field measurements collected from fire perimeters in Washington, Oregon, Idaho, Montana, and Wyoming using Google Earth Engine
- Analyzed multi-dimensional relationships between remote sensing indices of burn severity and field measurements using R statistical analysis software and ArcGIS
- Trained and supervised field crew in data collection. Collected tree measurements (tree mortality, heights, percent char) in burned forests along a gradient of burn severities using tools such as DBH tapes, laser rangefinders, and densiometers. Made crucial team safety decisions in challenging physical conditions including high temperatures and areas of high tree fall risk.
- Collaborated with USFS Geospatial Technology and Applications Center for remote sensing data acquisition and burn severity map creation (MS degree partially funded by USFS)
- Communicated findings with scientists and land managers at the Fire Continuum Conference, Missoula, MT May 21st, 2018
- Supervisor: Brian J. Harvey, 296-685-1988, bjharvey@uw.edu

University of California – Berkeley, Dept. of Environmental Science, Policy, and Management, Berkeley, CA

Student Research Assistant – The Potts Group

Sep 15, 2013 – May 01, 2017

- Analyzed literature and food waste statistics for global food waste quantification project, wrote and compiled summaries
- Conducted data analysis of land cover by looking at Landsat imagery of Southeast Sulawesi from 1975-2014 using the Google Earth Engine, a cutting-edge cloud-based geospatial analysis platform
- Aggregated historical government data regarding trade of commodities and crop production used in econometric modeling
- Supervisor: Matthew D. Potts, 510-642-5580, mdpotts@berkeley.edu

University of California Museum of Paleontology, Berkeley, CA

January 17, 2016 – May 07, 2017

Student Curator – Vertebrate Collections

- Worked individually to meticulously curate fragile mammal and reptilian specimens from the Pleistocene tropics of Bitter Creek, Wyoming
- Catalogued specimens into online database by entering locality and identification data, physically sorted and re-housed specimens in warehouse
- Integrated vertebrate morphology knowledge to sort and number specimens
- Engaged with the public by volunteering as a tour guide on days when museum was open to the public
- Supervisor: Patricia Holroyd, 510-642-3733, pholroyd@berkeley.edu

Cary Institute of Ecosystem Studies, Millbrook, NY

May 23, 2016 – August 12, 2016

National Science Foundation Research Experiences for Undergraduates Fellow

- Conducted independent study to model in-lake gross primary productivity at a global scale using MODIS derived surface temperature observations
- Communicated results of research to members of Lake Sunapee Protection Agency in oral presentation and discussed management options
- Developed and executed outdoor education and stream ecology workshop for underprivileged youth of Poughkeepsie, New York in collaboration with other REU fellows
- Attended workshops on programming in R statistical analysis software, effective science communication, and ecological theory
- Supervisor: Kathleen C. Weathers, 845-677-7600 ex 137, weathersk@caryinstitute.org

University of California – Berkeley, Dept. of Environmental Science, Policy, and Management, Berkeley, CA

Student Research Assistant for Dr. David Zilberman

January 15, 2016- May 11, 2016

- Conducted phone interviews with farmers, lawyers, civil engineers, and landscapers to learn about their use of CIMIS, California's Irrigation Management Information System with an emphasis on its utility in drought years

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- Compiled a concise report on the uses and benefits of a publically funded weather information system, which was published in 2016 state report on CIMIS
- Supervisor: David Zilberman, 510-642-6570, zilber11@berkeley.edu

Natural History Museum of Los Angeles County, Los Angeles, CA

June 1, 2016- August 12, 2016

Curator and Research Assistant for BioSCAN project

- Curated insect specimens and samples for the BioSCAN project: a large-scale, multi-year biodiversity survey of urban Los Angeles. Transferred delicate specimens to storage vials, labeled specimens, maintained database and inventory of samples. Identified certain Diptera and Lepidoptera to species level, which were separated and used in staff members' individual research.
- Planned and conducted an experiment for an original research project that elucidated the life histories of the 30 newly discovered species of Diptera by raising flesh-eating flies in various carrion mediums.
- Conducted an experiment comparing the effectiveness of pan trapping vs. malaise trapping of insects, with help of high school mentee for whom I was responsible.
- Communicated with patrons as a science educator and interpreter. Informed patrons about the BioSCAN project and curator tasks, how they could get involved with museum's citizen science initiatives, and educated patrons about local insect biodiversity.
- Supervisor: Lisa Gonzalez, lgonzale@nhm.org

Education

University of Washington, Seattle, WA

M.S. in Environmental and Forest Sciences | GPA: 3.87/4.0|

Degree to be received June 15, 2019

University of California – Berkeley, Berkeley, CA

B.S. in Environmental Science, *cum laude* |GPA: 3.76/4.0|

Degree Received May 12, 2017 | Honors Senior Thesis: Remote sensing of global lake primary productivity

Awards, Fellowships, and Scholarships

School of Environmental and Forest Sciences Recruitment Fellowship – <i>declined</i> (\$45,000)	2017-2018
Graduate Opportunity Program Research Assistantship Award – (\$45,000)	2017-2018
National Science Foundation Graduate Research Program Fellowship – <i>honorable mention</i>	2017
National Science Foundation Research Experiences for Undergraduates Fellowship (\$6,000)	2016
University of California Education Abroad Scholarship (\$5,000)	2015
Youth for Understanding Scholarship for Study Abroad – Japan (\$10,000)	2011

Leadership and Service

Leadership

Founding Member (2017-present), School of Environmental and Forest Science Graduate Student Council, aim to promote a collective student voice for graduate students, community-building events, career-building workshops, and student representatives for faculty hiring committees. Led a town hall meeting, fall student retreat with over 50 student attendees each. Co-organized graduate student research symposium, with over 60 attendees.

Active Member (2017-present), University of Washington College of the Environment Diversity Committee, aim to increase diversity, equity, and inclusion across all facets of the college. Conducted a climate survey and planned a focus group to better understand minority student experiences.

Additional Skills

Software: advanced proficiency in MS Office, Adobe Creative Suite, R statistical analysis language, ArcGIS, Google Earth Engine, ENVI remote sensing and spatial analysis software

Languages: Farsi (fluent native speaker), Turkish (proficient), Spanish (advanced), Japanese (novice)

Grant writing and project development, project implementation

Excellent oral and written communication skills for broad audiences

Interpersonal skills for increasing diversity, equity, and inclusion in the workplace.