CURRICULUM VITAE

BRIANNA MILOT

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EDUCATION

Bachelor of Science: Environmental and Sustainability Studies — Fall 2018
Minor: Geography
University of Utah, Salt Lake City, UT
Summa Cum Laude; GPA 4.0

RESEARCH INTERESTS

The impact of changing climates on individual plants and ecological communities. Evolutionary development of plants, with a focus on how these traits might influence their responses to environmental changes. Interested in plants that are useful in agriculture, and how these species affect their local ecosystem and how they will be affected by global environmental changes. Impact of invasive species and their associated restoration efforts on biodiversity.

RESEARCH POSITIONS

Research Assistant — May 2018 – May 2019
Legacy Effects on Riparian Plant Communities — Salt Lake City, UT
University of Utah; Advisor: Dr. Jennifer Follstad Shah

- Collected soil samples in Southern Utah
- Assessed impacts of agriculture and climate as legacy effects on cottonwood trees
- Conducted soil analyses to determine plant soil feedback effects

Lab Technician — January 2018 – May 2018
Lake Sediment Core Analysis — Salt Lake City, UT
Natural History Museum of Utah; Advisor: Dr. Mitchell J. Power

- Prepared sediment cores for charcoal and pollen analysis
- Recorded observations of sediment core samples
- Collaborated with graduate students to discuss observations and progress

Undergraduate Researcher — January 2017 – May 2018
Point Intersect Transect Surveys of Myrtle Spurge Populations — Salt Lake City, UT
University of Utah; Advisor: Dr. Jennifer Follstad Shah

- Collected biodiversity data on sites before and after weed pulling
- Documented prevalence of Myrtle Spurge in Salt Lake foothills in connection with the Red Butte Garden
- Studied the effectiveness of hand pulling myrtle spurge in volunteer weed pull program

SKILLS

Research

- Familiarity with R software and ArcGIS
- Sliced and processed lake cores to prepare core for pollen and charcoal identification
- Developed, planned, and implemented field work involving quadrat and transect analysis
- Collected soil cores in the field
- Analyzed physical and chemical characteristics of soil samples
- Applied for and received multiple undergraduate research grants
- Completed campus wide evaluation of food venues and wrote proposal for University to improve their quantity of real food

Leadership

- EnviroClub President: completely re-structured club and improved membership attendance
- Associate Director of Sustainability at ASUU: developed bi-weekly meetings to encourage student feedback and involvement and also organized campus-wide events to promote sustainability
- Member of Student Leadership Committee: planned events for my peers to encourage involvement in my major and aided professor in instructing introductory field classes
- Director of Environmental Action Team: planned monthly service events with local non-profits for students of all majors

Professional

- Edible Campus Gardens: held this position for three years (May 2016-May 2019), worked with volunteers from campus and the local community to teach gardening skills, managed growth of hundreds of plants in the greenhouse
- Sustainable Campus Initiate Fund: applied for and received three separate grants totaling over $5,000 to include an ADA accessible pathway in the gardens, new marketing materials for the Tree Campus club, and to fund the development of a master architectural plan of the Edible Campus Gardens.
- Developed a donation system from the Edible Campus Gardens to the University's student food pantry

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RESEARCH GRANTS AND AWARDS

Rio Mesa Undergraduate Research Fellowship (2018)

Legacy Effects on Riparian Plant Communities

- Applied and received grant of $1,000 to fund supplies for soil samples and lab analyses

Undergraduate Research Scholar Designation (2018)

University of Utah

- Awarded for completing at least two semesters of undergraduate research, presenting at a research symposium, and publishing in a research journal

Undergraduate Research Opportunities Program Stipend (2017)

Point Intersect Transect Surveys of Myrtle Spurge Populations

- Received $2400 in funding for two semesters of undergraduate research
- Additional $200 grant for supplies

PRESENTATIONS

CSBS Student Research (2019)
University of Utah

- Legacy Effects on Riparian Plant Communities

Undergraduate Research Symposium (2018)
University of Utah

- Point Intersect Transect Surveys of Myrtle Spurge Populations

PUBLICATIONS AND MEDIA COVERAGE

Undergraduate Research Journal

Milot, Brianna. Efficacy of Volunteer Weed Pull Programs on Management of Myrtle Spurge (Euphorbia Myrsinites) In the Foothills of Salt Lake City, Utah. 2018. University of Utah Undergraduate Research Journal.

The Salt Lake Tribune

Maffly, B. "How a 'waterwise' ornamental plant has taken over Wasatch foothills", The Salt Lake Tribune, May 7, 2018 (https://www.sltrib.com/news/environment/2018/05/07/how-a-waterwise-ornamental-plant-has-taken-over-wasatch-foothills/)