

VALERIA BRIONES

Email: valeriabbriones@gmail.com Tel: +1 860.806.5155

EDUCATION

M.S Forest Resources, University of Maine, Orono 2019-2021

Thesis: Analyzing the Impacts of Climate Change on Forest Phenology Trends in Maine over the Past Two Decades and the Perceptions of Changes in Seasonality within Maine State Parks

Advisors: Daniel J. Hayes, Sandra De Urioste-Stone

B.S Biology (Major), Ecology & Environmental Sciences (Minor), Dominican University of California 2014-2016

Thesis: Analysis of the Diets of the Northern Spotted Owl and Barred Owl

Advisors: Mietek Kolipinski, James Cunningham

PROFESSIONAL EXPERIENCE

Appalachian Mountain Club June 2020-September 2020

Graduate Student Intern

-Wrote a communication piece covering the effects of growing degree days and climate change on plant phenology within the White Mountains, NH for a diverse audience

-Used and adapted python code to analyze climate data from established weather station HOBO loggers

-Compiled and summarized long term climate and phenology data of alpine and forest plant communities

-Developed figures and charts summarizing plant phenology findings from long term monitoring plots

Round River Conservation Studies – Patagonia, Chile September 2017 – May 2019

Program Assistant/ Assistant Instructor

-Assisted in scheduling and leading program activities, academics and biological field research

-Managed logistics and safety in remote-field location for three months for a groups of 5-10 undergraduate students and staff

-Collaborated with local community, government agencies and park staff on education and research based projects

-Assisted in leading educational workshops and presentations to local communities

-Taught undergraduate courses in applied conservation biology, biological field methods, natural history, restoration ecology and human ecology

-Input, managed and cleaned long term datasets, photos, and course materials

-Assisted in leading plant, wildlife and bird field surveys

Klamath Network Inventory and Monitoring- National Park Service May 2018-September 2018

Biological Science Technician

-Conducted forest and understory vegetation monitoring within established long term vegetation plots

-Identified vascular plant species and utilized dichotomous keys

-Collected and prepared voucher specimens using a plant press for identification

Eastern Oregon Agricultural Research Center-USDA

Biological Field Technician

May-August 2017

-Collected, prepared and planted seed of various native vascular plants found on site

-Assisted research scientists conduct vegetative surveys and soil samples

-Studied effects of fire and grazing on high steppe and rangeland vegetative communities

-Input and cleaned all field data collected into collective database for further analysis

Audubon California Starr Ranch Sanctuary

November 2016- May 2017

Field Assistant

-Restored plots of land ranging in acreage to its native flora using mechanical/physical treatment of each site

-Worked collectively as part of a field crew of 5 members

-Collected, prepared and planted seed of various native vascular plants found on site

-Assisted with outdoor educational programs for groups of 6-30 people

Kenai Fjords National Park

May 2016- September 2016

Exotics Plant Management SCA Intern

- Conducted invasive plant monitoring and removal within park boundaries
- Recorded, managed and analyzed vegetation community compositions within established plots
- Familiarized with exotic and native plants of Alaska and the Kenai Peninsula through use of various field guides
- Collected and analyzed GPS data of established vegetation plots using Trimble GPS as well as ArcGIS

Vegetation and Ecological Restoration at Yosemite National Park

May-August 2015

Student Conservation Association Intern

- Collected and assisted in cleaning native seeds for future propagation
- Monitored vegetation conditions/ success within restoration sites
- Assisted in active restoration of plant communities and trails within 3 sites
- Lead volunteer groups in native plant seed collections and non-native invasive plant removal

PUBLICATIONS

Published:

Yao, Yanhua Scott Tsuchiyama, Ciyu Yang, Anne Laure Bulteau, Chong He, Brett Robison, Mitsuhiro Tsuchiya, Delana Miller, **Valeria Briones**, Krisztina Tar, Anahi Potrero, Bertrand Friguet, Brian K. Kennedy, Marion Schmidt. "Proteasomes, Sir2, and Hxk2 Form an Interconnected Aging Network That Impinges on the AMPK/Snf1-Regulated Transcriptional Repressor Mig1." Ed. Stuart K. Kim. *PLoS Genetics* 11.1 (2015): e1004968. *PMC*. Web. 14 Aug. 2018.

In Review:

Horne, L. , Wolf-Gonzalez, G., DiMatteo-LePape, A. , **Briones, V.**, Soucy, A. , DeUrioste-Stone, S.M. 2021. Climate Change Planning in a Coastal Tourism Destination, a Participatory Approach. *Journal of Environmental Planning and Management* (In review)

ORAL AND POSTER PRESENTATIONS

2020: Appalachian Mountain Club Webinar: "UMaine Graduate Students Share Their Summer Collaborations on AMC Conservation Projects." Poster presentation.

2020: Maine Mountain Symposium: "Analyzing Trends in Forest Phenology in Maine Over the Past Two Decades." Oral presentation.

2020: American Geophysical Union; "Analyzing Trends in Forest Phenology in Maine Over the Past Two Decades." Poster presentation.

2016: Scholarly and Creative Works Conference: "Diet Analysis of the Diets of the Northern Spotted Owl and Barred Owl." Poster presentation.

SCHOLARSHIPS AND GRANTS

2020-2021: University of Maine Mitchell Center Sustainability Solutions Grant. Funds: \$18,500

2013-2016: Dominican University of California Presidential Scholarship. Funds: \$13,000

TECHNICAL SKILLS

Coding Languages:

- Javascript: Proficient in large-scale data analysis, manipulation and visualization
- Python: (ERS 602, *Python Scripting for Data Analysis*)
- R: Proficient in large-scale data analysis and visualization
- Portable Batch Script

Software

- Google Earth Engine
- ArcGISPro
- RStudio
- Microsoft Office (Excel, Word, Powerpoint),
- Qualtrics
- Trimble and Garmin GPS

Certifications

- Wilderness First Responder (exp:2022)
- CPR/AED certified (exp:2022)

Language

- Native Spanish speaker/writer

REFERENCES

Daniel J.Hayes

Associate Professor of Geospatial Analysis & Remote Sensing

School of Forest Resources

University of Maine

daniel.j.hayes@maine.edu

Phone:(207) 581.2863

Sandra De Urioste-Stone

Associate Professor of Nature-Based Tourism

School of Forest Resources

University of Maine

Sandra.de@maine.edu

Phone:(207) 581.2885

Shalynn Pack

Internship Coordinator & Instructor

Dept of Fisheries and Wildlife

Oregon State University

shalynn.pack@oregonstate.edu

Phone: (541) 914.0352