Ashley R. Taylor

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EDUCATION

2020*	MSc GIS and Web Map Programming	University of Wisconsin-Madison	Madison, WI
2018	Advanced GIS Certificate, GPA: 4.0	University of Maine, Machias	Machias, ME
2014	BA Geography, GPA: 3.54	University of Vermont	Burlington, VT
2012	Non-degree	Sea Education Association (S-239)	Woods Hole, MA

*Anticipated graduation

EXPERIENCE

Invasive Plant Technician, Copper River Watershed Project Cordova, AK 5/2019 – Present

- Treating and managing invasive plants
- Collecting and tracking field data
- On site plant surveys and monitoring

Independent GIS Analyst, ART Geospatial Cordova, AK 2/2019 – Present

- Provide spatial data analysis and visualization with GIS products for clients
- Develop map products and interactive online maps for clients
- Conduct environmental research and supplemental field work

Data Specialist, MDI Biological Laboratory Salisbury Cove, ME 9/2017- 1/2019

- Plan and execute data collection activities in Community Environmental Health Lab (CEHL) to monitor water quality, phytoplankton, cruise ships, eelgrass, and green crabs
- Manage and build upon historic databases and disseminate data to partners
- Manage CEHL GIS database
- Improve and implement new eelgrass mapping protocols and technology
- Analyze data for grant reporting and publications
- Research scientific literature
- Promote Anecdata.org, a free online citizen science platform: recruit new users, assist with project set up, develop usability studies

Bay Steward, MDI Biological Laboratory Salisbury Cove, ME 6/2017-9/2017

- Map and collect water samples to track pollution sources in the Jordan River in collaboration with Department of Marine Resources
- Collect field data: temperature, salinity, and samples for bacteria analysis
- Manage CEHL GIS layers; develop map and spatial products
- Participate in outreach and education regarding water quality issues in Frenchman Bay
- Manage collected data from Jordan River project, Maine Healthy Beaches Project, and phytoplankton monitoring
- Participate in eelgrass research and restoration

Volunteer Research Assistant, Reef Doctor Ifaty, Madagascar 3/2017-4/2017

- Trained in coral, aquatic invertebrates, and tropical fish identification
- Participated in long term coral reef, artificial reef, and seagrass surveys via scuba diving and snorkeling
- Assisted in local sustainable livelihood initiatives such as seaweed farming, sea cucumber farming, turtle tagging program, and sustainable tree nursery
- Performed aquatic and fisheries data collection and entry

Monarch Butterfly Conservation Specialist, The Xerces Society Portland, OR 4/2015-12/2016

- Maintained and updated western milkweed and monarch breeding Access and Excel databases
- Assisted with identification and acquisition of data relevant to an 11 state monarch breeding habitat suitability model
- Liaison between Pacific Region U.S. Fish and Wildlife Service biologists and biotechnicians, GIS analysts, and Xerces Society biologists
- Created monarch/pollinator habitat restoration guidelines, including developing and field testing a monarch/pollinator habitat assessment tool for large scale natural landscapes
- Trained U.S. Fish and Wildlife Service biologists and technicians on protocols and provided technical support for ArcPad Trimble GPS usage and GIS
- Conducted independent fieldwork in remote areas and on wildlife refuges in OR, WA, ID, UT, CO, WY, and MT
- Coordinated and facilitated data collection with various citizen science, public, and governmental organizations (i.e. National Park Service, Washington State University, Monarch Larval Monitoring Project, The Nature Conservancy)
- Provided input and testing of data collection app and new citizen science web portal

Program Outreach Assistant, Friends of Tualatin NWR Sherwood, OR 2/2015- 4/2015

- Provided support for the shared Tualatin River National Wildlife Refuge and Friends of the Refuge programs
- Assisted with interpretive and public programming focusing on targeted populations and underserved youth
- Researched community groups and established working relationships for outreach
- Assisted with youth group programs such as summer camp including logistics, outreach, and implementation

Pollinator Coordinator Volunteer, U.S. Fish & Wildlife Service Vancouver, WA 11/2014- 4/2015

- Assisted Regional Refuge Biologist with baseline pollinator survey on wildlife refuges
- Processed pollinator samples
- Pinned and identified pollinator specimens
- Maintained and updated regional pollinator Access database

Research Assistant, CCAFS at The Gund Institute Burlington, VT 6/2013-6/2014

- CGIAR Research Program on Climate Change, Agriculture, and Food Security (CCAFS) – Theme: Pro-Poor Climate Change Mitigation
- Calculated estimate of greenhouse gas emissions from smallholder farmers (< 2 hectares) in developing countries

- Created and managed Excel spreadsheets
- Created system for finding and manipulating agricultural emissions data
- Wrote blog articles on data findings
- Contacted various UN Food & Agricultural Organization (FAO) scientists for missing data

Geological Society of America Intern, Gateway National Park   Sandy Hook, NJ   6/ 2011

- Monitored coastal topography and shoreline boundaries
- Tested and developed data collection protocols for U.S. Fish & Wildlife and National Park Service
- Collected data from the field with GPS units
- Downloaded field data and cleaned it up with GIS programs for analysis

Data Entry Volunteer, University of Vermont   Burlington, VT   1/ 2011

- Assisted UVM PhD candidate on Fisher Cat study
- Digitized historic fisher cat necropsy reports into Excel for further analysis

HONORS AND AWARDS

2018   **First Place in Student Poster Competition**
           Annual Maine GIS Users Group Conference at Bates College

2014   **James Wilson Globe Award**
           Geography Department Award based on high academic achievement, service to geography department, and active engagement with the discipline of geography

2014   **Geography Honors Society – Gamma Theta Upsilon**
           Chapter President

2013   **Geography Honors Society – Gamma Theta Upsilon**
           Chapter Secretary

PRESENTATIONS, POSTERS, AND PUBLICATIONS

2019   Dilts, T.E., Steele, MO., Engler, J.D., Pelton, E.M., Jepsen, S.J., McKnight, S., Taylor, A.R., Fallon, C., Black, S.H., Cruz, E., Craver, D.R., and Forister, M.L. (In preparation) Host plants and climate structure habitat associations of the western monarch butterfly. For submission to Frontiers in Ecology and Evolution.

2018   **Taylor, A.,** Johnson, T., & Disney, J.E. Mobile mapping: A new tool for eelgrass monitoring around Mount Desert Island. *Poster Presentation.* Maine GIS Users Conference. Lewiston, ME. November 9, 2018

2018   **Taylor, A.** Bailey, D., Farrell, A., Disney, J.E. Anecdata.org Lightning Talk. *Presentation.* Community-Driven Citizen Science for Health and the Environment Symposium, Washington, D.C. June 14, 2018

2018   Disney, J.E., Bailey, D., Farrell, A., **Taylor, A**. Mobile Citizen Science using the new Anecdata.org app. *Presentation*. 2018 Maine Sustainability and Water Conference, Augusta, ME. March 29, 2018.

2018   Dilts, TD, Steele M, Black S, Craver D, Cruz E, Engler J, Jepsen S, Jones A, McKnight S, Pelton E,

Taylor A, Forister M. 2018. Western Monarch and Milkweed Habitat Suitability Modeling Project Version 2 – Maxent Model Outputs. Xerces Society/US Fish and Wildlife Society/University of Nevada Reno. Available at: https://www.monarchmilkweedmapper.org/habitatsuitabilitymodels.

2017   Disney, Jane, Duncan Bailey, Anna Farrell, and Ashley Taylor**.** "Next Generation Citizen Science Using Anecdata.org." Maine Policy Review 26.2 (2017) : 70 -79, http://digitalcommons.library.umaine.edu/mpr/vol26/iss2/15.

2017   Farrell, A.E**., Taylor, A.R.**, Bailey, C.D., Disney, J.E. Marine and coastal citizen science: a tale of eelgrass restoration. *Poster Presentation.* College of the Atlantic Science Symposium. Bar Harbor, ME. October 27, 2017.

CERTIFICATIONS

2018	Advanced GIS Certificate
2017	SSI Open Water and Advanced Open Water SCUBA certifications
2017	Underwater Visual Census – Identification and Methodology
2017	Coral Restoration and Monitoring