

Madeleine Landrum

WORK EXPERIENCE

Assessment, Inventory, and Monitoring Vegetation and Soils Crew Member, Southwest Conservation Corps, Americorps, Bureau of Land Management (BLM), Tres Rios Field Office, Dolores, CO May - October 2019.

- Utilized ArcGIS/ArcMap to develop survey plans, accessibility requirements, and locate remote campsites
- Utilized GPS and paper map data to navigate remote BLM land parcels by vehicle and on foot
- Worked closely and safely in a three-person team to collect data in difficult terrain and environments
- Surveyed vegetation and identified every native and invasive plant in a given area; recording data in a hand-held tablet using Survey123 and Collector software
- Assessed line point intercept, canopy gap, and soil stability using AIM protocol
- Dug 70cm deep soil pits to characterize soil horizons, texture, color, and gravel content
- Recorded signs of archeological remains for the BLM archeological department
- Identified wildlife and their signs in the area
- Managed, organized, and performed quality assessment and checks on collected data
- Worked closely with the BLM staff to execute project needs and provide data for management plans
- Drove company vehicles down unmaintained 4x4 roads safely and efficiently

Plant Sales and Care, Spring Valley Nursery, Franklin, NC April 2015 - December 2017.

- Diagnosed and treated plant diseases, infections, soil issues, and growth inhibitors
- Practiced safe chemical application techniques using natural pesticides and fertilizers
- Maintained greenhouses using knowledge of native and ornamental plant varieties
- Assisted with sales and customer service
- Designed and distributed educational and promotional materials for the nursery
- Maintained nursery website

Program Assistant, Highlands Biological Foundation and Station, Highlands, NC June 2015 - March 2017.

- Performed public relations and community outreach
- Served as a liaison between scientists and the community by developing newsletters, press releases, and social media posts about ongoing research projects
- Assisted in developing, organizing, and running educational and fundraising events, such as hikes, dinners, and lectures by research scientists
- Organized field trips by coordinating marketing, trip sign-ups, transportation, and educational material
- Designed marketing materials including brochures, catalogues, invitations, banners, and emails
- Assisted in the development and marketing of an educational AltaCloud Mobile App
- Ran various reports on membership, donors, etc. using NeonCRM by ZSystems
- Performed basic website management using Wordpress
- Assisted in the operation of the Nature Center, which included animal husbandry, running educational events, and assisting visitors

USDA Natural Resources Conservation Service (NRCS) Volunteer, Hamilton USDA, Hamilton, NY October - December 2014.

- Recorded GPS coordinates of wildlife restoration plots for Soil Information System (SIS) mapping

- Surveyed areas under contract and determined if crops were planted properly with regard to slope
- Contacted landowners to determine if they were in compliance with federal guidelines for wetlands, farmland, and wildlife habitats

Ethnobotany Intern, Mountain Spring Herbals, Earlville, NY

April - October 2014.

- Helped prepare medicinal plant materials for ethnobotany classes
- Studied biological systems and historical medicinal plant use for the treatment of various illnesses
- Responsible for manufacturing, from plant cultivation to final product (tinctures, teas, tonics, etc.)
- Weeded, prepared, and planted the herb and vegetable gardens
- Maintained the greenhouse by watering, fertilizing, pruning, and transplanting plants. Also maintained and cleaned tools

Laboratory/Greenhouse Assistant, Environmental Biology Program, Cazenovia College, 2011 - 2014.

- Prepared supplies for lab classes and tested lab equipment, including gas monitors, microscopes, and electrofishing packs
- Personally responsible for updating, cataloging, and safely disposing of chemical stores
- Updated cataloging system for microscope slides and plant samples
- Set trap nets to survey fish populations, collected and analyzed fish scales, and collected and analyzed tree cores
- Maintained the greenhouse by watering, fertilizing, pruning, and transplanting plants. Also maintained and cleaned tools

Wilderness Survival Camp Counselor, Hawk Circle Wilderness Education Camp, Cherry Valley, NY, Summers 2012 - 2013.

- Instructed classes on survival techniques such as safe fire making, locating water, identifying edible plants, and building shelters for 9 - 17 year old children
- Maintained trails using hand saws, loppers, and pruners

ADDITIONAL WORK EXPERIENCE AND PROFESSIONAL DEVELOPMENT

Landscaping, Vega Designs, Franklin, NC Fall 2017, May 2020 - Current

Web Designer, Madeleine Landrum, LLC, Franklin NC, December 2019 - Current

Bookkeeper, A-1 Marine, Glenville, NC December 2019 - Current

Communications and Outreach, Cabin Creek Timber Frames, Franklin, NC February 2019 - Current

Landscaping, Cattails Landscaping, Franklin, NC March 2019 - March 2020

Blogger, The Trek, July - December 2018

Blogger, www.landromeda.wordpress.com, December 2017 - January 2019

Conference Organizer and Attendee, Special Highlands Conference on Plethodontid Salamander Biology, Highlands, NC August 2016

Conference Attendee, Highlands Workshop on Non-Native Invasive Plants and Their Control, Highlands, NC August 2016

Waitress, Brae Loch Inn, Cazenovia, NY Spring - Winter 2014

Tutor, Cazenovia College, Cazenovia, NY September - December 2014

Nutrition Advisor, Earthward Natural Food and Co-op, Amherst, NH, 2010 - 2013

SKILLS: ArcGIS Seine Netting CPR Certified Adobe Photoshop
GPS Collection Clinometer Wilderness First Aid AltaCloud Mobile

ESRI Collector App	Compass	Transect Design	Quickbooks
Google Earth Pro	Plant I.D.	Microsoft Office	Square Space
LabQuest/Vernier	Soil Texturing	NeonCRM	Wix
ESRI Survey123 App	Species Collection	Adobe Illustrator	Wordpress
AIM Protocol	Electrofishing	Adobe InDesign	

Equipment: Defensive 4x4 driving, RedMax 51CC Blowers, String Trimmers, Push Mowers, 2 Cycle Chain Saws, and various hand tools.

EDUCATION

Bachelor of Science in Environmental Biology, Minor in Studio Art
December 2014

Cazenovia College, Cazenovia, NY

GPA: 3.6 (Cum Laude)

Western Carolina University, Cullowhee, NC (Non-Degree)

GPA: 4.0

RELEVANT COURSEWORK

Applied Genetics and Evolution

Environmental Ethics

Chemistry I and II

Biotoxics: Issues and Policy

Environmental Science

Organic Chemistry I

Biotoxics: Parasites and Pathology

Field Botany

Pre-Calculus

Cellular and Organismal Biology

Nature's Underworld

Calculus

Cellular and Molecular Biology

Plant Biology

Statistics

Ecology

Zoology

ACADEMIC HONORS AND AWARDS

Beta Beta Beta Biological Honors Society, Inducted Spring 2015

Alpha Lambda Delta, First Year Honor Society, Inducted Spring 2012

Dean's List (Spring 2012 - Fall 2014), Founders Scholarship (2011 - 2014)

Emerson Scholarship (2013), Blue and Gold Grant (2011 - 2014)

ACTIVITIES

Go Tell it on the Mountain 5k for Cystic Fibrosis, Volunteer, 2019

Through-hiked the Appalachian Trail, 2018 (January 1st - June 23rd)

Through-hiked the Pacific Crest Trail, 2018 (July 14th - December 14th)

Chittenango Creek Clean Up, Volunteer, 2013-2014 (Earth Day)

Outdoor Adventure Club, President 2013-2014, Member 2012 - 2014

Environmental Club, President 2013 - 2014, Member 2011 - 2014

Ski Club, 2012

Sustainability Club, 2011 - 2012

Cross Country Team, Team Captain 2013, Member 2012 - 2013

Crew Team, 2012