TREVOR L. ROMICH

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CURRENT POSITION

University of California, Santa Barbara — **September 2017 – Present**
Department of Geography — **Graduate Student**

- Advised by Dr. Naomi Tague. Developing a Ph.D. project to investigate the impact of changes in moisture availability on drought-induced conifer needle shedding.
- Working with former Master's advisor, Dr. Jennifer King, to publish the results of my Master's research in a scientific journal.
- Serve as a Teacher's Assistant for the department's undergraduate courses.

PRIOR WORK EXPERIENCE

University of California, Davis — **April 2016 – August 2016**
McLaughlin Natural Reserve — **Intern**

- Worked as part of a team of five interns to carry out reserve management tasks.
- Controlled invasive plants through hand pulling and herbicide application.
- Assisted with restoration work by planting and watering trees and maintaining and removing protective equipment.
- Participated in other management tasks as needed, including cleaning and organizing of the preserve office and assisting with data collection.

The Nature Conservancy, *Massachusetts* — **May – October 2015**
Chapter, Great Barrington Office — **Intern**

- Worked independently to accomplish objectives of chapter staff.
- Developed a draft habitat management plan for a wetland preserve. Researched management concerns, made observations, collected data in the field, consulted with staff to determine management priorities, and prepared a written draft plan.
- Collected GPS data using the Collector app, synced data with a GIS database, and manipulated GIS data using ArcMap.
- Assisted with other office and field work, including rare turtle monitoring, cutting invasive roadside plants, trail construction, and scanning and organizing documents.
- Assisted with supervision of volunteer field crews.
- Prepared for and passed the Massachusetts pesticide licensing exam.

Byggmeister, Inc. — **February – March 2015**
Newton, MA — **March – September 2014, Intern**

- Prepared a presentation regarding my internship work, and presented at the Northeast Sustainable Energy Association's *BuildingEnergy 15* event as part of a panel consisting of several green building professionals.
- Conducted research using databases, industry contacts, and other sources, and performed calculations in Excel, to determine embodied energy of retrofitting projects for residential buildings.
- Developed methods to collect data for future embodied energy analyses.
- Presented preliminary results to employees at a company meeting and created a written report of final results for management.

Koke'e Resource Conservation Program — **September – December 2014, Intern**;
Koke'e State Park and region, HI — **April - May 2012, Student Intern**

- Performed program work to actively remove invasive plants from native forests using a combination of herbicide and hand tools. Work was conducted in groups, frequently off-trail in remote locations, and sometimes requiring overnight camping trips and helicopter transportation.
- Worked with staff to train and supervise program volunteers.
- Assisted in the native plant nursery. Developed Excel spreadsheet and printable data sheets to track plants and seeds.
- Collected data via GPS and handheld counter, and entered it into Access and ArcMap.
- Worked on various projects, including representing KRCP to the public at an outreach event and planning effectiveness tests for new methods of invasive plant control.
- Received training in chainsaw use and used a chainsaw to cut invasive trees.

Gurevitch Lab, Department of Ecology and Evolution, Stony Brook University — **June – November 2013**
Stony Brook, NY — **Research Assistant** (Temporary position)

- Conducted group and independent field and lab work related to populations of the invasive plant spotted knapweed at sites on Long Island and in the Adirondacks.

- Identified native and invasive plants using a field guide, surveyed new and existing sites, took site photos, and recorded information according to established methods.
- Entered and checked accuracy of field data and monitored a greenhouse experiment.

NOAA Mauna Loa Observatory **June - September 2012, February – December 2013, Independent Student Volunteer**
Hilo, HI

- Independent work under direction of observatory Station Chief to analyze 20+ years of hourly atmospheric tide chart data and compare with El Nino-Southern Oscillation dataset. Planned and implemented a method to manipulate large amounts of data in Excel and MATLAB, and apply Fourier and Lomb-Scargle analyses to data by month.

EAS 4800: Our Changing Atmosphere **September - November 2012**
Cornell University, Ithaca, NY **Teacher's Aide**

- Assisted the professor by grading homework assignments on a weekly basis.
- Identified which problems students had the most trouble with, and met with professor to report results and discuss concerns related to grading.

Finger Lakes Land Trust, *Ithaca, NY* **June-July 2011**
Intern

- Assisted with office and field work, including data entry and manipulation in Excel, helped with mailings, constructed trail signage, assisted with installation of a wooden bridge, cleared paths, maintained equipment.

PRIOR EDUCATION

University of California, Santa Barbara **September 2017 to March 2020**
Department of Geography

Master of Arts in Geography
Completed a research project designed to investigate the impact of sunlight on dissolved carbon extractable from California grass litter.
Wrote a Master's Thesis, titled "Photodegradation stimulates microbial activity through enhanced water solubility of grass litter carbon."

Cornell University, College of Agriculture and Life Science, Ithaca, NY **September 2009 to May 2013**

Bachelor of Science, May 2013, Magna Cum Laude, Cumulative GPA 3.8
Major: Science of Earth Systems
Concentration: Biogeochemistry and Atmospheric Science
Courses with labs or field work required analysis of data and presentation of results in tables or graphs.

SKILLS

Computer Skills:

- Microsoft Office, MATLAB, R (a statistical program).
- Used Word and Excel from primary school through present, including manipulation of data in tables and charts in Excel and use of tables in Word.
- Used ArcMap for the purpose of inputting data and creating maps of field work areas.
- Limited experience coding in Python to assist with the use of ArcGIS software.

Field Skills:

- Navigation using GPS or map and compass.
- Tree measurement (height by angle, DBH with calipers or DBH tape) and other plant measurement with measuring tape and meter stick.
- Herbicide, protective gear, and trail-clearing tool use and care.
- Plant ID with a field guide and from memory.
- Recording data related to field observations.
- Setting up and taking down transects, following preexisting sampling methods.
- Driving a 4-weel drive vehicle on backcountry roads.
- Have completed Basic Aviation Safety online course provided by the federal government's Interagency Aviation Training and have flown in a helicopter for work.