

# Emily G. Martin

716.868.4906 | emilygmartin96@gmail.com  
3988 Jones Center Dr., Newton, GA 39870

## EDUCATION

### University of Georgia, Athens, GA

*Master of Science in Ecology*, expected graduation: **December 2022**

Co-advisors: Dr. Krista Capps & Dr. Stephen Golladay

Geographic Information Science Graduate Certificate

3.96 GPA

### State University of New York at Geneseo, Geneseo, NY

*Bachelor of Science in Biology*, **2018**

Minor: Environmental Studies

3.63 GPA, Cum Laude

Honors: TriBeta Biological Honor Society, Phi Eta Sigma National Honor Society

## EXPERIENCE

### Graduate Research Assistant, Odum School of Ecology/J. W. Jones Ecological Research Center

Athens, GA/Newton, GA

**August 2020 – Present**

- Investigate spatial and temporal trends in microplastic pollution in freshwater streams
- Perform geospatial and statistical analyses using R and ArcGIS
- Conduct monthly water quality sampling for nutrient and carbon analysis
- Digest animal tissue for microplastics analysis
- Conduct water sampling at wastewater treatment plants

### GIS Technician, Tennessee Aquarium Conservation Institute

Chattanooga, TN (Remote)

**May 2021 – August 2021**

- Created survey forms using Survey123 for ArcGIS
- Produced watershed maps using ArcPro
- Managed database of partner organizations

### Firefighter Type 2 (A.D.), U.S. Fish and Wildlife Service

Hillsboro, GA

**November 2020 – Present**

- Serve as FFT2 (as needed) to assist prescribed burn program on National Wildlife Refuge
- Implemented over 6,000 acres of prescribed fire
- Perform interior and exterior fire ignition in multiple fuel types including grass/shrub and timber/slash fuels

**Biological Technician**, National Park Service/Student Conservation Association/AmeriCorps  
Roosevelt, AZ  
**July 2019 – July 2020**

- Developed and managed post-wildfire revegetation project
- Managed wildlife monitoring program using georeferenced wildlife data and remote cameras
- Served as crew lead on NPS wildlife crew
- Operated and maintained climatic research station

**Forestry Technician**, U. S. Fish and Wildlife Service/Student Conservation Association/AmeriCorps  
Hillsboro, GA  
**January 2019 – July 2019**

- Served as Firefighter Type 2 with Fish and Wildlife Service fire crew to implement prescribed fire for ecological restoration and habitat improvement
- Prepared, implemented, and evaluated 10,000 acres of prescribed fire
- Conducted forest inventory surveys for silvicultural prescriptions
- Monitored all managed clusters of endangered bird species
- Performed bird, butterfly, and bear surveys
- Marked timber for thinning operations
- Mixed and applied herbicide for exotic plant control

**Vegetation Crew Member**, U. S. Forest Service/Student Conservation Association/AmeriCorps  
Prince of Wales, AK  
**May 2018 – August 2018**

- Collected forestry and vegetation data for large-scale silvicultural and wildlife habitat restoration studies
- Gathered measurements on site conditions, overstory tree characteristics, understory vascular plant cover, wildlife habitat, and plant biomass
- Navigated to sites in physically demanding conditions including steep and rugged terrain, dense vegetation and thinning slash, cold wet weather, and remote sites

**Undergraduate Researcher**, SUNY Geneseo Department of Biology/Laboratory of Dr. Jennifer Apple  
Geneseo, NY  
**August 2017 – May 2018**

- Studied extended leaf phenology of invasive shrubs
- Collected and performed statistical analyses of field data
- Assisted in managing a community science project on extended leaf phenology

**Undergraduate General Biology Laboratory Assistant**, SUNY Geneseo Department of Biology  
Geneseo, NY  
**January 2017 – December 2017**

- Presented lectures concerning fundamental biological concepts, laboratory procedures, and experimental design to lab sections
- Introduced R software to first-year students
- Supervised safe and proper use of laboratory equipment

## TRAININGS & CERTIFICATIONS

- Adult First Aid/CPR/AED (01/2022)
- University of Georgia Geographic Information Science Graduate Certificate (12/2022)
- Defensive Driving (11/2021)
- ACF Freshwater Mussel Workshop (08/2021)
- University of Georgia Lab Safety Basics (08/2020)
- U.S. Forest Service FFI Software Training (04/2019)
- U.S. Fish and Wildlife Service UTV/ATV Training (03/2019)
- Firefighter Type 2 Certified (01/2019) – Arduous Red Card Active (01/2022)
  - S-130 Firefighter Training
  - S-190 Introduction to Wildland Fire Behavior
  - L-180 Human Factors in the Wildland Fire Service
  - An Introduction to the National Incident Management System (NIMS)
  - ICS-100 Introduction to Incident Command System
- U.S. Forest Service Shoreline Survival Training (05/2018)
- Wilderness First Aid (05/2018)
- U.S. Forest Service Aviation Training (05/2018)
- U.S. Forest Service Boat Safety Training (05/2018)
- U.S. Forest Service Bear Safety and Bear Spray Training (05/2018)

## PRESENTATIONS

1. **Emily G. Martin**, Briana Kubik, Clark Davis. 2018. Modeling the Spread of Brucellosis in the Greater Yellowstone Area, SUNY Geneseo's GREAT Day.  
*Oral presentation by Emily Martin, Briana Kubik, Clark Davis*
2. **Emily G. Martin**, Jennifer L. Apple. 2018. Extended Leaf Phenology of the Invasive Amur Honeysuckle (*Lonicera Maackii*), SUNY Geneseo's GREAT Day.  
*Poster presentation by Emily Martin*
3. **Emily G. Martin**, Jennifer L. Apple. 2018. Extended Leaf Phenology of the Invasive Amur Honeysuckle (*Lonicera Maackii*), Northeast Natural History Conference.  
*Poster presentation by Emily Martin*
4. **Emily G. Martin**, Jennifer L. Apple. 2017. Phenological Monitoring of Native and Invasive Shrub Species, SUNY Geneseo Undergraduate Research Symposium.  
*Poster presentation by Emily Martin*

## GRANTS

2021: J. W. Jones Ecological Research Center Grant (\$5,000)

2018: SUNY Geneseo Travel, Research and Creativity Grant (\$600)

## SOFTWARE SKILLS

- ArcGIS: ArcPro, ArcMap, Survey123
- R/R Studio
- Google Earth Pro
- Nature's Notebook

- FEAT/FIREMON Integrated (FFI)
- Microsoft: Word, Excel, PowerPoint

## **PROFESSIONAL AFFILIATIONS**

- Society for Freshwater Science (2021)

## **COMMUNITY INVOLVEMENT**

- Rivers Alive Flint River Cleanup, Albany, GA (09/2021)
- High Desert Humane Society, Globe, AZ (10/2019 – 12/2019)
- Promised Land CSA at the Oles Family Farm, Alden, NY (08/2018 – 11/2018)
- Geneseo Biology Club, SUNY Geneseo, Geneseo, NY (08/2014 – 05/2018)
- Biology Mentoring Program, SUNY Geneseo, Geneseo, NY (09/2017 – 12/2017)
- Scottsville Animal Shelter, Scottsville, NY (11/2016 – 03/2017)