Amy Mayedo

PhD Candidate, Graduate Teaching Assistant, Department of Crop and Soil Science   
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**EDUCATION**  
 B.Sc., Environmental Science 2014  
 Minor, Soil and Water Science  
 University of Florida, Gainesville, FL  
 GPA 3.52 *Cum Laude*

PhD, Soil Science 2022  
 Oregon State University, Corvallis, OR  
 GPA 3.55

**RESEARCH EXPERIENCE**  
 **Intern**, NOAA-NGI Diversity Internship Program, Lorman, MS May – August 2013

* Conducted a [water resources characterization for Alcorn State University](http://www.northerngulfinstitute.org/outreach/internships/2013/mayedo.pdf) in Lorman, MS
* Performed data analysis using GIS and software such as SpecWare 9, NetSTORM, LIDIA
* Instrumentation: WatchDog Weather Station 2000 Series, YSI Sonde 6600, dissolved oxygen meter with probe, swing sampler, pH probes, water monitoring kit

**Supervised Research**, University of Florida, Gainesville, FL January – May 2014

* Conducted an observational study on total nitrogen flux as part of a mock critical zone project
* Performed field sampling to collect subsurface leachate for analysis
* Instrumentation: ABS collars, Shimadzu total nitrogen/dissolved organic carbon analyzer

**Intern**, Northern Ecosystems Research for Undergraduates, New Hampshire/Sweden May – August 2014

* “[Mercury Content of Vegetation Across a Subarctic Mire Thaw Gradient](https://agu.confex.com/agu/fm14/meetingapp.cgi#Paper/30483)” presented at the 2014 American Geophysical Union Fall Meeting
* Quantified mercury content of peat mire shrubs in Northern Sweden across ecotones via thermal decomposition
* Research conducted in the University of New Hampshire Institute for the Study of Earth, Oceans and Space in Durham, NH/Abisko Scientific Research Station in Abisko, Sweden

**OPS Laboratory Assistant**, Agronomy Laboratory, University of Florida, Gainesville, FL February 2015 – June 2016

* Assisted two post-doctoral researchers with agronomic projects in Citra, Gainesville, and Live Oak, FL
* Skills developed include: WinRhizo software use, lysimeter installation and purging, soil coring, Hammer Mill and Wiley Mill use, LI-COR, fertilizer preparation, chlorophyll fluorometer use (SPAD readings)

**Graduate Student Researcher**, H.J. Andrews Experimental Research Forest, Blue River, OR October 2016 – Present

* Permitted to access OSU/U.S. Forest Service research infrastructure, create scientific installations upon September 2017 Site Use Proposal
* Affiliation with DIRT (Detrital Input and Removal) Experiment, Long-Term Ecological Research network
* Invited to the University of Toronto Scarborough Environmental NMR Centre as a visiting student researcher under the Global Skills Strategy program, June 2018
* AND (Andrews) data catalog entry CF019

**TEACHING EXPERIENCE**  
 SUS 102 Introduction to Environmental Science and Sustainability, OSU September 2016 – Present

* Graduate Teaching Assistant, Senior Teaching Assistant, Laboratory Coordinator

**PROFESSIONAL AFFILIATIONS AND LEADERSHIP**

UF Agronomy-Soils Club, *Treasurer* 2012 – 2014

Alpha Zeta agricultural honor society, *Member* 2013 – 2014

Delta Epsilon Iota academic honor society, *Member* 2014 – 2014

Howard T. Odum Florida Springs Institute, *Member* 2014 – 2016

Agronomy Society/Soil Science Society/Crop Science Society of America, *Member* 2014 – Present

American Geophysical Union, *Member* 2014 – Present

Coalition of Graduate Employees, *Steward Council,* *Caucus of Graduate Student Safety Founder* 2016 – Present

Association for Graduate Soil Scientists, *Member* 2016 – Present

Association for Graduate Soil Scientists, *President* 2019 – 2020

Oregon Soil Science Society, *Active Member* 2016 – Present

Long-Term Ecological Research Network, *Student Member* 2016 – Present

Environmental Protection Agency, *Grantee* 2017 – Present

Pacific Regional Society of Soil Science, *Student Member* 2019 – Present

**AWARDS**

Florida Medallion Scholar Award 2010 - 2014

Tools for Success, NSF program 08/2011 – 04/2012

Presidential Volunteer Service Award, Parks and Open Spaces 05/2012

Butler Chain Conservation Association Edwin and Paula Brackney Environmental Scholarship 08/2012

William Bartram Undergraduate Scholarship in Environmental Science 02/2013

Florida Foundation Seed Producers Scholarship 03/2013

Doris Lowe and Earl and Verna Lowe Scholarship 08/2013 – 12/2014

**PRESENTATIONS**

NOAA/Northern Gulf Institute Diversity Internship, Stennis Space Center, LA 03/2013

“Alcorn State University Water Resources Characterization”

Northern Ecosystem Research Experience for Undergraduates, University of New Hampshire 08/2014

“Mercury Content of Vegetation Across a Subarctic Mire Thaw Gradient”

American Geophysical Union 2014 poster, San Francisco, CA 12/2014

“Mercury Content of Vegetation Across a Subarctic Mire Thaw Gradient”

Fall 2017 Seminar Series, Oregon State University 09/2017

“Characterization of Terrestrial End-Members in a Mediterranean Forest Watershed”

Oregon Society of Soil Scientists Winter Meeting, Corvallis, OR 02/2018

“Comparing Spectroscopic Methods to Characterize the Chemical Composition of Terrestrially Sourced Dissolved Organic Carbon”

Andrews Forest Spring Poster Session, Corvallis, OR 06/2018

“Spectroscopic Analysis of Dissolved Organic Carbon in Pacific Temperate Rainforest Watersheds of Different Land-Use Histories”

Long-Term Ecological Research All-Scientists Meeting, Pacific Grove, CA 10/2018

“1H NMR Analysis of Dissolved Carbon in Pacific Temperate Rainforest Watersheds of Different Land-Use Histories”

Oregon Society of Soil Scientists Winter Meeting, Silver Falls, OR 02/2020

“1H NMR Analysis of Dissolved Carbon in Pacific Temperate Rainforest Watersheds of Different Land-Use Histories”

**PROFESSIONAL SERVICES**

Chair, Promotion and Tenure Student Committee, Fall 2019, Department of Crop and Soil Science at Oregon State University

Executive organizing committee, 2020 Annual Warkentin Distinguished Lecture series, Department of Crop and Soil Science at Oregon State University. Invited speaker: Dr. Margaret S. Torn (2020)

**PUBLICATIONS**

Mayedo, A. (2018). Comparing Optical and High-Resolution Mass Spectrometry Methods to Characterize the Chemical Composition of Terrestrially-Sourced Dissolved Organic Carbon.

Mayedo, A. (2018). Hydrologic Dynamics of Carbon in Pacific Temperate Rainforest Systems.

**RELEVANT COURSEWORK**

|  |  |
| --- | --- |
| Nutrient Cycling | Contemporary Literature in Ecological Isotope Research |
| Mineral-Organic Matter Interactions | Forest Hydrology |
| Soil Physics | Soil Morphology and Classification |
| Biology of Soil Ecosystems | Methods of Data Analysis |
| Environmental Soil Chemistry |

**REFERENCES**

Kate Lajtha

Oregon State University, Dept. Crop and Soil Sciences

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Earth Scientist, Team Lead  
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