

Anh Mai

mai4@stolaf.edu - www.linkedin.com/in/anhmai1495/

1520 St. Olaf Avenue, Northfield, MN

Prospective graduate student in the environmental sciences with interests in quantitative and theoretical ecology with intersections in social justice

EDUCATION

B.A. in Environmental Studies, Natural Sciences emphasis— St. Olaf College, Northfield, MN Degree Expected: May 2025
Concentrations—Statistics and Data Science, Race and Ethnic Studies GPA: 3.84
Study Abroad—Andean Field Studies in Ecuador September–December 2022

RELEVANT SKILLS

Laboratory: Plant Water-Use Physiology (Osmometry, Porometry, Scholander Chamber, Xylem Vulnerability Curves) and mass spectrometry, controlled environment propagation

Computer: RStudio (advanced), ArcGIS, Microsoft Suite, data wrangling, Zotero, inferential statistical modeling, biostatistical analysis (basic), website construction, developing functions

Fieldwork: Remote sensing, tree identification (basic), forest measurements, harvesting, threshing

Language: Spanish (intermediate), Vietnamese (proficient)

Writing: Academic literature review and synthesis, policy briefs

Interpersonal: Constructive dialogue training, conversation facilitation

RESEARCH EXPERIENCES

REU Student Researcher, Boyce Thompson Institute and Cornell University—*Ithaca, NY* June 2024–August 2024

- Conduct research with Dr. Virginia Moore and Ph.D. candidate Raksha Thapa on cold tolerance capacity of USDA peas in a controlled thermogradient table
- Cultivate seed processing skills and assist with crop harvests
- Attend bioinformatics class sessions to complete certification and weekly seminars hosted by Cornell University researchers

Student Researcher, Directed Undergraduate Research—*Northfield, MN* September 2023–December 2023

- Designed and executed research on seasonal plant water-use physiology with Dr. Jake Grossman's team
- Developed skills in field identification, sampling, and physiological measurements of woody plants
- Collaborated with team to plan and conduct research and communicate findings in a manuscript-style paper

TRIO McNair Student Researcher, St. Olaf College—*Northfield, MN* May 2023–August 2023

- Conducted full-time, supervised plant physiological research on xylem embolism vulnerability with Dr. Jake Grossman through the TRIO McNair and Collaborative Undergraduate Research and Inquiry (CURI) Programs
- Completed research writing course; created literature review, abstract and professional poster presentation

Independent Research Student, Andean Field Studies, St. Olaf College—*Northfield, MN* September–December 2022

- Led a 6-week independent research project on soil composition and stability in a landslide-prone region through a semester long study abroad program in Ecuador
- Enhanced cultural knowledge through staying with and communicating with local families in Spanish
- Presented findings in English and Spanish to research directors and peers

EMPLOYMENT

Student Grader, St. Olaf College Statistics and Data Science Department—*Northfield, MN* September 2024–present

- Assist Dr. Martha Zillig in evaluating student homework assignments on a weekly basis
- Provide constructive feedback on assignments

Civic Engagement Fellow, St. Olaf Academic Civic Engagement Office—*Northfield, MN* April 2023–present

- Develop skills pertaining to navigating service learning, community service, and applied learning
- Explore the ethics of service work
- Provide resources to students, faculty, staff, and community partners regarding service-learning partnerships

Peer Reflection Leader, St. Olaf Academic Civic Engagement Office—*Northfield, MN* February 2023–present

- Harness skills to support dialogue facilitation through research and guiding community dialogue events
- Collaborate with colleagues to develop and improve on/off campus programming by making and refining guides

Spanish Teaching Assistant, St. Olaf Spanish Department—*Northfield, MN* February 2023–May 2023

- Supported the Spanish Department by evaluating student work and answering questions
- Practiced Spanish skills through examining grammatical structure and literary works

EXTRACURRICULAR ACTIVITIES

President and Founder, SEEDS at STO Chapter—*Northfield, MN*

November 2023–present

- Apply for establishment of a Strategies for Ecology Education, Diversity, and Sustainability (SEEDS) chapter on campus and update club membership documentation
 - Develop skills in grant writing, organization, time management, and leadership
 - Organize events to support diversity and inclusion in the St. Olaf community related to ecology and conservation
- Social Media Coordinator**, St. Olaf Environmental Coalition–*Northfield, MN* November 2023–present
- Communicate with leadership team to effectively plan and implement community events
 - Utilize time management to maximize outreach efforts and promote event attendance
- Field Trip Participant**, SEEDS Field Trip to Konza Prairie LTER Site–*Lawrence, KS* October 2023
- Investigated ongoing research project emphasizing the important components of prairie ecosystems
 - Attended career panel and explored post-undergraduate opportunities in research
- Lead Student Organizer**, St. Olaf Environmental Studies Department–*Northfield, MN* May 2023–present
- Work with team to organize and plan events to promote community in the Environmental Studies department
- Scholar**, St. Olaf TRIO McNair Scholars–*Northfield, MN* January 2023–present
- Graduate school preparatory program for first-generation and underrepresented students
 - Participate in summer internships, research experiences, and monthly workshops
- Scholar**, St. Olaf McNair Student Support Services (SSS)–*Northfield, MN* February 2022–present
- Strengthen goal-setting skills and create action plans to achieve them
 - Participate in skill-building workshops for time-management, test anxiety, and financial literacy
 - Network with SSS alumni to broaden connections and explore different career pathways
- Social Media Coordinator**, St. Olaf Political Awareness Committee–*Northfield, MN* February 2022–July 2022
- Created weekly posters to inform student body about upcoming events
 - Received and provided feedback from events to club members for improving future events
 - Set and met deadlines for print orders to advertise events through large banners and posters

PRESENTATIONS

- Mai, A., J. Phan, and J.J. Grossman. (2024). Branch ontogeny does not predict xylem vulnerability to embolism in American linden (*Tilia americana*). Presentation at Rice University's Gulf Coast Undergraduate Research Symposium (GCURS), Houston, TX.
- Mai, A., J. Phan, and J.J. Grossman. (2024). Branch ontogeny does not predict xylem vulnerability to embolism in American linden (*Tilia americana*). Poster presented at Ecological Society of America Annual Meeting, Long Beach, CA.
- Mai, A., R. Thapa, and V. Moore. (2024). Exploring the cold tolerance capacity of USDA pea (*Pisum sativum* L.) collections. Poster presented at Cornell University and Boyce Thompson Institute Symposium. Ithaca, NY.
- Mai, A., J. Phan, and J.J. Grossman. (2024). Stem xylem vulnerability to embolism in mature vs. young *Tilia americana* branches. Poster presented at Natural Sciences and Mathematics (NSM) Honors Day Symposium, Northfield, MN.
- Mai, A., J. Phan, and J.J. Grossman. (2023). Stem xylem vulnerability to embolism in mature vs. young *Tilia americana* branches. Poster presented at St. Olaf Student Research Fall Symposium, Northfield, MN.
- Mai, A., J. Phan, and J.J. Grossman. (2023). Stem xylem vulnerability to embolism in mature vs. young *Tilia americana* branches. CURT McNair Poster Session with TRIO Student Support Services (SSS), Northfield, MN.
- Mai, A., A. Craven, J. Kiehne. (2023) Redlining vs 2022 Air Temperature in Milwaukee. Poster presented at St. Olaf College GIS Poster Session. Northfield, MN.

PROFESSIONAL AFFILIATIONS

- Ecological Society of America (ESA)
- Student Research Presenter at Long Beach Annual National Conference August 2024
 - Student Member August 2024
 - SEEDS Chapter Founder and President November 2023

ACADEMIC HONORS AND AWARDS

- Rice University's Gulf Coast Undergraduate Research Symposium (GCURS) Travel Award November 2024
- Received full funding to present at GCRUS
- ESA Harvard Forest Leadership Meeting Nominee and Participant September 2024
- Nomination by faculty advisor for emerging leaders in ecology to learn about science communication, the impact of science, and more inclusive leadership skills
- ESA Travel Award August 2024
- Received full funding to present at Annual Meeting of the ESA in Long Beach, CA
 - Received one-on-one mentorship from ecological mentors and SEEDS alumni
- MNTRIO Scholarship February 2024
- SEEDS Grant February 2024
- Margaret Boldt Anderson Endowed Scholarship for Study Abroad Opportunities Fall 2022
- Cynthia Foss Brunk Endowed Scholarship for Study Abroad Opportunities Fall 2022

Gilman Scholarship
Dean's List

Fall 2022
Spring 2021, Spring 2023, Fall 2023, Spring 2024