

Curriculum Vita

Anna Pallone

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Education

University of Dayton

GPA: 3.863

B.S. in Environmental Biology

August 2020-Present

Research Interests

I have an interest in taking part in a wide variety of research involving forest ecology. I have assisted in dendrochronology, old growth forest, and prairie establishment research projects. I enjoy gathering experience in many different areas of research within forest ecology and would also be interested in gathering experience outside of this field as well.

Research Experience

Research Assistant; Forest Ecology Lab

September 2021-Present

Dr. Ryan McEwan - University of Dayton

- Assist with transect and subplot establishment, tree measurement, and species identification at Hueston Woods
- Harvest and clean bur oak seedlings and collect root samples for fungal community
- Sanding large tree cross sections with orbital sander
- Creating, transferring and editing data for Heuston woods plots in ArcMap
- Adding, editing, and checking data in sheets and excel spreadsheets
- Adding tree measurements to physical maps
- Scanning physical maps and uploading to Google Drive
- Cleaning glassware and enzyme assay dishes
- Identifying native, non-native and invasive prairie plants
- Preparing and mounting microscope slides

Project Leader; Forest Ecology Lab

August 2022-Present

Dr. Ryan McEwan - University of Dayton

- Lead NSF funded project on Cajander Larch trees in Siberia
- Use Windendro to measure tree rings of tree core samples
- Data entry in sheets and excel
- Create figures in R studio using ggplot package
- Creating an outline for dendrochronology procedures in the lab
- Train lab members in dendrochronology procedures and tree ring measuring and dating software

Undergraduate Research Internship; Dean's Summer Fellowship

April 2022-August 2022

Dr. Kristen de Graauw - University of Dayton

- Collected tree core samples from historic log cabin at Carriage Hill MetroPark
- Mounted tree core samples
- Sanded tree core and cross section samples with orbital and belt sander

- Added and edited data in sheets and excel spreadsheets.
- Measured tree core samples from Carriage Hill MetroPark and cross sections from Beedle Cabin
- Internally and externally cross dated Beedle Cabin oak samples using Cofecha and EDRM.
- Created a site wide dated chronology for Beedle Cabin using Tellervo
- Found an accurate date for construction of the historic Beedle Cabin and corrected the estimated date given by the Warren County Historical Society

Technical Skills

- Creating figures in R studio using ggplot package
- Digitizing and georeferencing in ArcGIS
- Creating substrates
- Proper cleaning of glassware and lab space
- Using tree measuring and dating software Windendro, Tellervo, Cofecha, EDRM

Field Skills

- Collecting tree core samples
- Identification of native, non-native and invasive species
- Identification of Northern deciduous forest vegetation
- Measuring tree parameters: height DBH, and species identification
- Collecting bur oak seedlings
- Collecting soil core samples
- Aided in establishment of quadrats for sampling plant community

Presentations

Pallone, Anna. "Tree Ring Analysis of larch dynamics following stand replacing fire in the Siberian Arctic." *Stander Symposium*, 19 April 2023

Relevant Coursework

University of Dayton - B.S. Education

- Trees of Ohio Lab- BIO 207L
- Ecological Restoration- BIO 409
- Environmental Ecology- BIO 459/459L
- Applied GIS- GEO 450

Awards/Funding

- Dean's Summer Fellowship
- National Science Foundation research funding