

# Megan Stoneburner

300 College Park, Dayton, OH, 45469

(330)831-9158

School: [stoneburnerm1@udayton.edu](mailto:stoneburnerm1@udayton.edu)

Personal: [megan.elizabeth041@gmail.com](mailto:megan.elizabeth041@gmail.com)

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## Education

B.S. in Environmental Biology | University of Dayton | August 2021-present | Minor in Sustainability GPA: 3.609

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## Research Experience

### Ryan McEwan Lab

January 2024-present

#### [The McEwan Laboratory – Forest Ecology at the University of Dayton](#)

##### *Undergraduate Project Leader*

- Managing a project studying how the phenology of invasive tree specie, Callery Pear, gives it an advantage over native woody species
- Coordinating undergraduate involvement in the project
- Monitoring the phenological stages of Callery Pear
- Documenting data relating to the phenology of Callery Pear
- Recording the effects of the Cedar Pear Rust Fungus on Callery Pear phenology

### Ryan McEwan Lab

August 2023-present

##### *Lab Technician*

- Collaborated with graduate and undergraduate students in their research projects through lab and field work
- Assisted in measuring the basal diameter, height, and tagging of trees
- Collected and sorted through bird feces to test for seed viability through bird dispersal
- Sorting through camera trap photos
- Contributed in setting up experiments
- Provide feedback on experiments and presentations

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## Professional Work Experience

### Hanley Sustainability Institute

February 2023-present

#### *Student Leader*

- Assists in running the Zero Waste Team, which includes running the Student Neighborhood and Office Compost program and holding Zero Waste Events
- Working a compost in-vessel
- Performing Waste Audits
- Developing professional skills in diverse fields of sustainability
- Working towards making the University of Dayton more sustainable
- Educates the students and faculty of the University of Dayton on sustainability
- Using machinery with an attached trailer

### Mill Creek MetroPark

May 2023-August 2023

#### *Fellows Riverside Garden Intern*

- Maintained the park by weeding, planting, pruning, mowing, watering, and mulching
- Acquired skills in driving stick, skid steer, and zero turn
- Learned skills in chainsaw techniques
- Gained a better understand of botany and horticulture

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## Technical Skills

- Identifying Northeastern native and invasive woody species
- Skills in recording data in Microsoft Excel and Google Sheets
- Importing data into R studio to create figures
- Driving machinery that uses stick shift, skid steer, and zero turn
- Experience using aquatic habitat quality evolutions (Headwater Habitat Evaluation Index and Qualitative Habitat Evaluation Index)
- Measuring tree parameters such as height, DBH, and BA

- Interpreting and analyzing scientific figures
  - Water temperature, conductivity, turbidity, dissolved oxygen, and pH measurements of freshwater systems using YSI probe
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### **Relevant Courses**

- Trees of Ohio (BIO 207L)
  - Ecological Restoration (BIO 409)
  - Bio River and Lakes Lecture and Lab (BIO 452 and 452L)
  - Sustainable Communities (SEE 280)
  - Sustainable Scenarios (SEE 310)
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### **Honors and Accomplishments**

- Dean's List for College of Arts and Sciences: Fall '21-'23 and Spring '22 and '24