

JENNIFER DOE

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Education

University of Dayton Bachelor of Science in Environmental Biology May 2019(Expected)
Honors Program Minor: Sustainability, Energy, and Environment

Overall GPA: 3.88

Dean's List Fall 2015-Spring 2018

Research Experience

Dr. Ryan McEwan - Undergraduate Project Leader; Dayton, OH May 2017-Present

Undergraduate Research Projects:

- *Bill Yeck Park Vascular Flora Species List*
 - To compile a vascular flora species list for Bill Yeck Park, a 194-acre nature park in suburban Dayton to record biodiversity and better inform park management.
- *Influence of the invasive shrub *Lonicera maackii* on headwater stream salamander communities.*
 - To establish a protocol that rapidly assesses the abundance and richness of salamanders in headwater streams and understand how populations densities of salamanders fluctuates across a gradient of invasive riparian shrubs, Amur Honeysuckle.
- *Urban Watershed Collaborative*
 - To connect the Great Miami Valley Watershed to their waterways and work with the local community to educate and improve water quality. This project also looks at water management from a global approach, helping improve water quality in China.
- *City of Dayton: Storm Water Monitoring*
 - To understand how storm water runoff impacts the Great Miami Watershed and work to monitor the water quality throughout the Great Miami River.

Dr. Alexandra Harmon-Threatt – Summer REU Intern 2018; Urbana-Champaign, IL May-August 2018

Project:

- *Can hover flies detect the presence of neonicotinoid insecticides in food sources?*
 - To determine if hover flies will actively prefer or avoid food sources contaminated with the common neonicotinoid pesticide, clothianidin. Performed in a laboratory setting with hover flies captured in the field.

Academic Presentations

- **Sparbanie, T.M.**, M.J. Kukla, J.I. Chapman, and R.W. McEwan. 2017. Bill Yeck Park vascular flora species list. National Council on Science and the Environment: Student Sustainability Leaders: Networking Our Future, (Dayton, OH, September 23, 2017). [poster]
 - **Sparbanie, T.M.**, M.J. Kukla, J.I. Chapman, and R.W. McEwan. 2017. Bill Yeck Park vascular flora species list. Centerville-Washington Park District Board Meeting, (Centerville, OH, March 12, 2018). [oral presentation]
 - **Sparbanie, T.M.**, Kukla, M.J., Montemurri, C., Chapman, J.I., McEwan, R.W. 2018. The vascular flora of Bill Yeck Park: Supporting the conservation of local biodiversity. University of Dayton, Miami Valley Ecology Lunch (Dayton, OH; April 14, 2018). [poster]
 - **Sparbanie, T.M.**, Kukla, M.J., Montemurri, C., McEwan, R.W. 2018. The vascular flora of Bill Yeck Park: Supporting the conservation of local biodiversity. University of Dayton, Stander Symposium (Dayton, OH; April 18, 2018). [oral presentation]
 - "Little, M.N., "J.I. Adams, "C. Kuminecz, "M.J. Kukla, "M.E. Maloney, "J. Murphy, "T.M. Buskey, "T.M. Sparbanie, "E.B. Borth, "S.D. Mahoney, "K.W. Custer, "J.I. Chapman and R.W. McEwan. 2018. Aquatic macroinvertebrate density in headwater streams with varying intensities of riparian Amur honeysuckle (*Lonicera maackii*) invasion. University of Dayton, Stander Symposium (Dayton, OH; April 18, 2018). [poster]
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Grants and Fellowships

McEwan Lab Summer Fellowship

Summer 2017

- \$3,000 to gain 40 hrs/week research experience in the McEwan Laboratory and be trained in field work, data collection, and statistical analysis.

2019 Stander Undergraduate Fellowship

- \$969.18 to fund the Bill Yeck Park Vascular Flora Species List with the expectation to present at the Stander Symposium in the spring of 2019.

Honors Thesis Fellowship

- \$1500 to fund and the Bill Yeck Park Vascular Flora Species List as an honors thesis and community engagement project.

Field/Lab Research Skills

- Proficient in Ohio leaf taxonomy
- Experience in macro-invertebrate identification
- Extensive knowledge on invasive plant taxonomy of Ohio
- Proficient with wetland and prairie plant taxonomy
- Proficient with plant dissection and identification under a microscope using a dichotomous key
- Experience with general aquatic fieldwork
- Proficient in data entry in Excel and Microsoft word
- Water temperature, conductivity, turbidity, dissolved oxygen, and pH measurement of freshwater systems using a YSI Sonde probe
- Experience in curating and contributing to the University of Dayton Herbarium
- Experience with data analysis using R
- Experience sampling hover flies, bees, and aphids using sweep and hand nets
- Experience with ArcGIS

Relevant Course Work

- General Chemistry I & II and Labs
- Organic Chemistry I
- Ecological Restoration
- Vertebrate Zoology
- Plant Biology
- Ecology
- Physical Geology
- Geological History of the Earth
- Introduction to Geographic Information Systems (GIS)
- Biological Statistical Analysis (R)

Awards and Recognition

- Honors Student August 2015-Present
- Presidential Merit Scholarship Recipient June 2014-Present
- Deans List 2015, 2016, 2017 & 2018

Professional Experience

University of Dayton Campus Recreation – *Safety Supervisor*

September 2017 - Present

- Develops training content for 225 UDCR student staff in safety skills and emergency preparedness.
- Leads the safety supervisor team in biweekly meetings, vision casting, and training.

- Designs and creates monthly safety challenges for UDCR staff to reengage in safety training in an accessible and competitive manner.

University of Dayton Biology Department- *Biology Lab Tutor*

January 2018-Present

- Helps students with scientific writing and understanding biological research
- Aids in tutoring students on a variety of biology concepts covered in the Biology 152 Lab.

University of Dayton Campus Recreation – *Lifeguard*

August 2015 - Present

- Maintains surveillance and ensures safety for UD's RecPlex patrons using the aquatic center.
- Performs cleaning tasks and equipment checks.
- Tests for chlorine and pH levels in aquatic center pools.

Memberships, Leadership and Service

- Young Life: Dayton adult volunteer leader at Fairmont High School
 - *Over 800 hours of service since February of 2016*
- Young Life: Vice President at the University of Dayton and Special Interest Housing recipient
- Member of the University of Dayton Campus Recreation Supervisor Leadership Cohort 2017-Present
- Peer Mentorship: Leadership Dialogue with Underclassmen on Building Experience in Biology

References
