

Julia Warren

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EDUCATION

- 2017-2021** **B.S. Biology & Environmental Studies | University of Wisconsin-Madison**
Biology Capstone: The effect of acid rain on competing species.
Environmental Studies Capstone: A comparative study on the life cycle analysis of compostable and reusable takeout containers at the University of Wisconsin-Madison.
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SCHOLARSHIPS AND AWARDS

- 2017-2021** Dean's List; *Student achieved at least a 3.5 GPA or above*
2021 Distinctive Scholastic Achievement; *Top 20% of the student's graduating class*
2020 Vicky Lee Hirsch Academic Merit Award (\$3,000)
2018 Cora I. Jayne Academic Merit Award (\$1,818)
2017 College of Agricultural and Life Science Scholarship (\$2,000)
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RESEARCH EXPERIENCE

- 2021- Present** **Post-Graduate Research Intern | University of Wisconsin-Madison**
NSF Nitrogen Project: Explore how nitrogen recovers in aggrading postfire lodgepole pine stands in Greater Yellowstone and how nitrogen stocks might respond to more frequent, stand-replacing fire.
Cryptic sources | Nitrogen fixation and limitation | Changing fire regimes and compound disturbances
Advisor: Dr. Monica Turner
- 2021** **Field Research Technician | University of Wisconsin-Madison**
Short-interval versus long-interval fire returns: ~7-week field season in postfire lodgepole pine forests in Greater Yellowstone to quantify differences in forests and fuels recovery and understory data across a range of postfire climate conditions.
Disturbance regimes | Ecosystem and landscape ecology | Forest composition and function
Advisor: Dr. Kristin Braziunas, Dr. Monica Turner
- 2020-2021** **Undergraduate Researcher | University of Wisconsin-Madison**
Mammalian Behavioral Response to Multiple Invasive Species: Examine similar or contrasting behaviors of mammals living in different invasive-modified habitats and quantify their impacts on native plant communities.
Animal behavior | Activity budgets | Behavioral changes to visual and auditory cues | Spatial ecology
Advisor: Carson Keller, Dr. John Orrock
- 2018-2021** **Undergraduate Researcher | Wisconsin Institute for Medical Research, Madison, WI**
The effects of obesity and collagen density on breast cancer: Determine if proteomic alterations in circulating exosomes are associated with breast cancer progression.
Breast carcinoma | Tumor microenvironment | Tumor risk and progression | Collagen alignment
Advisor: Dr. Suzanne Ponik
- 2017-2019** **Animal Care Specialist | University of Wisconsin-Madison**
Lab animal husbandry for the Department of Biochemistry.
Supervisor: Dustin Irving, CVT
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SKILLS

- Research:** Literature review and synthesis, model parameterization, allometric equation development, life cycle analysis, TRACI environmental impact assessment, climate change vulnerability assessment, database development and maintenance.
- Field:** Field season logistics, field technician training, GPS and compass navigation, backcountry and wilderness experience, plant and animal identification, understory abundance and richness, surface fuel loads, tree density, nutrient addition experiment, N fixation rates, ge positioning and radio telemetry, camera trap maintenance, Unpersoned Aerial System (Person Operating Controls and Visual Observer).
- Laboratory:** Total carbon-total nitrogen analysis (soil, litter, foliage), annual nitrogen inputs, nitrate and ammonium analysis from mixed bed ion exchange resin, aboveground net primary production, allometry, stable isotope signatures, microscopy (compound and multiphoton microscope), polymerase chain reaction and QPCR, agarose gel electrophoresis, DNA/RNA/cell line analysis, IHC/IF cell staining, exosome isolation.
- Animal handling:** Small mammal capture and immobilization, Havahart trap, carbon dioxide euthanasia, ear notching, oral gavage, retro-orbital blood draw, subcutaneous injections, tissue and blood harvest, surgery preparation, isoflurane anesthesia.
- Computer:** Geographic Information Systems (ArcGIS, QGIS, Google Earth Pro, Basecamp), data analysis (R-Studio, ImageJ, Solomon Coder), modeling (Climate Reanalyzer, iLand, MARK), Microsoft Office (Word, Excel, PowerPoint, Access), website design (Wordpress, Dreamweaver).
- Certificates:** RARC Mouse Handling, Laboratory Animal Science Aseptic Technique Certification, Lab Animal Surgery Certification, Laboratory Animal Science Anesthesia Certification.

PROFESSIONAL SOCIETIES AND OUTREACH

- 2019-2021 Nelson Ambassador | Nelson Institute for Environmental Studies, Madison, WI**
Coordinated and implemented Nelson Institute events and seasonal activities for prospective and current students, and mentored prospective and current students.
- 2018-2021 Student Chapter of the Wildlife Society | University of Wisconsin-Madison**
Regularly attended citizen science events and local meetings to discuss the implications of current events on environmental issues.
- 2019-2020 Volunteer | Black Hawk Community Garden, Middleton, WI**
Maintained the Black Hawk Community Church Food Pantry Garden to provide fresh, healthy food options for those in need.
- 2018-2019 Volunteer | Morgridge Center for Public Service, Madison, WI**
Organized evening activities through the CPC English Speaking program, focusing on teaching English to non-English speaking children.
- 2017-2018 Volunteer | Red Caboose Child Care Center, Madison, WI**
Supervise 20 students at the Red Caboose Child Care Center and execute educational plans to prepare them for kindergarten.
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