

AARON RIDALL

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EDUCATION

Doctoral Candidate (ABD): Ecology & Evolution, Florida State University (current) – expected 05/03/2024

Master of Science in Biology, Florida State University

Master of Science in Education: Biology Education, SUNY Brockport

Focused on how feedback is used in shaping student learning and developed a summative assessment self-regulation strategy for students to monitor the success of their test preparation strategies.

Bachelor of Arts: Biology with Initial Teaching Certification, SUNY Geneseo

Focused on the role that spatial competition may play in shaping coral reef dynamics in the Bahamas.

PROFESSIONAL APPOINTMENTS

Florida State University | Graduate Teaching Honcho | 2020

Responsible for the design of a distance-learning curriculum for the undergraduate biology lab. Oversaw and trained graduate teaching assistants in the course in content-specific and general pedagogical practices. Rewrote student assessments to incorporate objective-based assessments into the curricular materials for the course.

Florida State University | Graduate Teaching Assistant | 2019 – Present

Responsible for the facilitation of undergraduate biology laboratories and lectures, including the instruction of curricular materials, evaluation of student achievement, and assessment of course goals.

United States Military Academy Preparatory School | Natural Sciences Instructor | 2017 – 2019

Responsible for the instruction of Biology 100, Chemistry 100 and 101, and Physics 100. Oversaw the Physics 100 course and wrote curricular materials, designed assessments, and developed and analyzed student growth metrics for the department. Instructed students using the POGIL (Process-Oriented Guided Inquiry Learning) pedagogy, which focuses on using a constructivist learning approach to empower students by using case studies, data analysis and interpretation, and critical thinking activities and encouraging peer collaboration to develop new knowledge.

PUBLICATIONS (†indicates undergraduate student)

1. **Ridall, A.**, Maciute, A., Bonaglia, S., Nascimento, F., & Ingels, J. (*In prep*). Interstitial ecosystem function responses to high levels of microplastic pollution may resemble natural, healthy systems.
2. **Ridall, A.**, Asgari, S.†, & Ingels, J. (2023). The role of microbe-microplastics associations in marine nematode feeding behaviors. *Environmental Pollution*, 335, 122308.
3. **Ridall, A.** & Ingels, J. (2023). Nematode community structures in the presence of wastewater treatment plant discharge. *Environmental Monitoring and Assessment*, 195, 991.
4. **Ridall, A.**, Farrar, E.†, Dansby, M.†, & Ingels, J. (2023). Influence of wastewater treatment plants and water input sources on size, shape, and polymer distributions of microplastics in St. Andrew Bay, Florida, USA. *Marine Pollution Bulletin*, 187, 114552.
5. **Ridall, A.** & Ingels, J. (2022). Seasonal and spatial variations in microplastics abundances in St. Andrew Bay, Florida. *Science of the Total Environment*, 852, 158422.
6. **Ridall, A.** & Ingels, J. (2021). Suitability of free-living marine nematodes as bioindicators: Status and future considerations. *Frontiers in Marine Science*, 8, 685327.
7. **Ridall, A.** (2020). Guide to the Identification of Marine Meiofauna, Schmidt-Rhaesa (Ed.) Verlag Dr. Friedrich Pfeil, Munich, Germany, 2020. *Invertebrate Biology*, 139(4), e12304.

SERVICE

Professional Service

Reviewing

Environmental Pollution

Marine Ecology Progress Series

Science of the Total Environment

Water Research

Biodiversity and Conservation

Departmental Service

Graduate Student Mental Health Team Leader

2020 – 2024

Ecology & Evolution Research Discussion Group, Treasurer	2021 – 2022
How to Apply to Graduate School Panel	2022
Independent Research Supervisor: Undergraduate Research Opportunity Program	2021 – 2022
Independent Research Supervisor: Garnet and Gold Scholars Program	2021 – 2022
Public Outreach	
Florida State University Coastal and Marine Laboratory Open House	2022, 2024
Thomasville Community Resource Center Weekend at the Sea	2023
Scientists in Every Florida School	2022

GRANTS AWARDED

Margaret Y. Menzel Award (\$1,200)	2023
Graduate Student Publication Award (\$500)	2023
William R. and Lenore Mote Research Assistantship (\$6,790)	2020, 2021, 2023
Florida State University Dissertation Research Grant (\$1,000)	2021, 2023
Florida State University Planning Grant (\$20,222)	2022
Jack Winn Gramling Endowment (\$4,000)	2022
Lerner-Gray Memorial Grant (\$1,400)	2022
FSUCML Board of Trustees Student Research Grant (\$2,329.26)	2021, 2022
John Vernberg Award (\$300)	2021
Lou Burnett Award (\$300)	2020
Friends of Gumbo Limbo Research Grant (\$2,500)	2020
PADI Foundation Grant (\$5,000)	2020
Adelaide D. Wilson Graduate Fellowship Endowment (\$1,000)	2019

AWARDS AND HONORS

Florida State University Outstanding Teaching Assistant Award	2022
Florida State University Outstanding Teaching Assistant Award Nominee	2020

PRESENTATIONS (†indicates undergraduate student)

Ridall, A., et al. How microplastics alter interstitial ecosystem functions. Ocean Sciences Meeting 2024. February 2024 (Poster)

Ridall, A. Microplastics, nematode communities, and the St. Andrew Bay estuary. St. Andrew and St. Joe Bay Estuary Program Science and Technical Committee Meeting, November 2023

Ridall, A. & Ingels, J. Seasonal and spatial distributions of microplastics in St. Andrew Bay, Florida, USA. MICRO 2022: Plastic Pollution from Macro to Nano. Virtual Presentation, Spain, November 2022 (Poster)

Ridall, A., Asgari, S.†, & Ingels, J. The role of microbe-microplastics associations in marine nematode feeding behaviors. 18th International Meiofauna Conference. Virtual Presentation, New Zealand, December 2022

Farrar, E.† & **Ridall, A.** Size variability of microplastics pollution in St. Andrew Bay, Florida. Undergraduate Research Symposium, Florida State University, April 2022 (Poster)

Dansby, M.† & **Ridall, A.** Microplastic composition in relation to wastewater treatment plants. Undergraduate Research Symposium, Florida State University, April 2022 (Poster)

TEACHING & MENTORING

Teaching Faculty

United States Military Academy Preparatory School (USMAPS)

Biology for Non-Majors (BIO 100)	2017-2019
Chemistry for Non-Majors (CHEM 100, 101)	2017-2019
Physics for Non-Majors (PHYS 100)	2017-2019

Teaching Assistantship

Florida State University

Experimental Biology Laboratory: Field Marine Ecology (BSC 3402L)	SP24
Experimental Biology Laboratory: Synthesis of Biomedical Data (BSC 3402L)	SP22
Experimental Biology Laboratory: Drosophila Genetics (BSC 3402L)	SP21
Conservation Biology (BSC 3052)	FA21
Biology II Laboratory (BSC 2011L)	FA19, SP20
Course Leader (Honcho), Biology II Laboratory (BSC 2011L)	SU20, FA20
Course Leader (Honcho), Biology for Non-Majors Laboratory (BSC 1005L)	FA23

Mentees

Asgari, Sean – Research technician 2022 - 2023

Dansby, Morgan – Garnet and Gold Scholar Program student 2021 – 2022

Microplastic composition in relation to wastewater treatment plants

Farrar, Emily – Undergraduate Research Opportunity Program student 2021 – 2022

Size variability of microplastics pollution in St. Andrew Bay, Florida

REFERENCES

Dr. Jeroen Ingels

Research Faculty at Florida State University Coastal and Marine Lab

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Dr. Tom Miller

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Dr. Andrew Rassweiler

Associate Professor of Biology, Florida State University

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