

Anthony J. Pignatelli

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Education


PhD	University of South Carolina , Biological Sciences	June 2023 - Present
	• Advisor: Dr. Tad Dallas	
MS	University of Central Arkansas , Biology	June 2021 - May 2023
	• Advisor: Dr. Halvor Halvorson	
	• Thesis: <i>The Ecological Stoichiometry of Food Webs in Urban Streams of Central Arkansas</i>	
BS	Kent State University , Environmental and Conservation Biology	Aug 2017 - May 2021
	• Minor: Geography	


Research & Teaching Experience

Graduate Research Assistant , University of South Carolina	Columbia, SC
	June 2023 - Present
Graduate Teaching Assistant , University of South Carolina	Columbia, SC
• Principles of Biology II Lab, BIOL 102L, Fall 2023	August 2023 - Present
• Ecology and Evolution Lab, BIOL 301L, Spring 2024-Present	
Graduate Research Assistant , University of Central Arkansas	Conway, AR
• Ecological Stoichiometry Cooperative, NSF-EPSCoR Grant (STOICH Project)	June 2021 - May 2023
Undergraduate Research Assistant , Kent State University	Kent, OH
• CELLDEx Consortium (Cellulose Decomposition Experiment)	March 2019 - May 2021

Publications

AJ Pignatelli and TA Dallas.. **In Review**. Increasing environmental variability decreases community synchrony in aquatic macroinvertebrate communities .

EK Moody, ... , **AJ Pignatelli**, et al.. 2024. Linking Functional Responses and Effects with Stoichiometric Traits. *Ecology*.
<https://doi.org/10.1002/ecy.70080> 

B Tumolo, C Olson, E Larson, **AJ Pignatelli**, et al.. 2024. Nonlinear thinking in ecology and evolution: The case for ecological scaling of the Threshold Elemental Ratio. *bioRxiv*. [10.1101/2024.08.20.608290](https://doi.org/10.1101/2024.08.20.608290) 

Presentations

Oral Presentations

- ESIP Envirosensing Meeting, November 2024
- USC EEB Seminar, October 2024
- ESIP Envirosensing Meeting, *Ecological Stoichiometry of Urban Streams in Central Arkansas - Nutrients and Water Quality*, Dec 2023
- USC EEB Seminar, *Effects of Habitat Fragmentation on Metapopulation Dynamics*, November 2023
- Southeastern Water Pollution Biologists Association, *Using Ecological Stoichiometry Theory to Examine Land Use Effects on Arkansas Urban Stream Food Webs* 2023

- STOICH Project Year 2 All Scientist Summit, *Leaf Litter Stoichiometry in Central Arkansas Streams*, University of Central Arkansas, 2022

Poster Presentations

- Ecological Society of America Annual Meeting, *The relationship between environmental variability and community synchrony in freshwater macroinvertebrates*, 2024
- USC Discover Day, *The relationship between environmental variability and community synchrony in freshwater macroinvertebrates* 2024
- Joint Aquatic Sciences Meeting, *Influence of Riparian Buffers in Central Arkansas Streams*, University of Central Arkansas, 2022
- Society for Freshwater Science Annual Meeting 2021, *Land-Use Effects on Decomposition Rates & Immobilization of Nutrients in Urban Streams*
- Kent State Undergraduate Research Symposium, 2021, *Land-Use Effects on Decomposition Rates & Immobilization of Nutrients in Urban Streams*

Awards & Grants

- Jeffrey Barnsdale Memorial Fellowship for Excellence as a Graduate Instructional Assistant, Dept. of Biological Sciences, University of South Carolina, 2025
- Earth Science Information Partners Community Fellowship, \$2,000, 2024
- Elsie Taber Fellowship, Graduate Student Travel Award, Dept. of Biological Sciences, University of South Carolina, \$1,850, 2024
- Graduate Student Travel Grant, Graduate School, University of South Carolina, \$500, 2024
- Ralph W. Dexter Faculty Scholarship Award, Kent State University, 2021
- Environmental Science and Design Research Initiative (ESDRI) Fellowship, Kent State University, 2020
- Summer Undergraduate Research Experience (SURE) Scholarship, Kent State University, \$2,000 2020

Service

- Guest Services Volunteer, National Park Service, Congaree National Park, 2025-Present
- Graduate Association of Biological Sciences, President, 2025-2026
- Graduate Association of Biological Sciences, Service Chair, 2024-2025
- Conference Planning Committee Member, Conference on Biological Stoichiometry, 2023
- Student Resource Committee Sub-Committee Chair for Student-Mentor Mixer, Society for Freshwater Science, 2023

Computational Skills

- R
- ArcGIS
- QGIS
- TerrSet