CV - Scott Goeppner

Department of Natural Resources, University of Missouri
Email: sg39v@missouri.edu

Positions held

Post-doc (July 2025 - present) – Rick Relyea's lab, University of Missouri, Columbia, MO, USA

Post-doc (July 2024 – July 2025) – Rick Relyea's lab, Rensselaer Polytechnical Institute, Troy NY, USA

Post-doc (December 2022-July 2024) – Burt Kotler's lab, Blaustein Desert Research Institute at Ben-Gurion University, Midreshet Ben-Gurion, Israel

Adjunct Instructor (August 2022 – December 2022) – Oklahoma State University, Stillwater OK, USA

Education

PhD in Zoology (Advisor: Dr. Barney Luttbeg), Oklahoma State University –May 2022
Dissertation title: Predator induced phenotypic plasticity within and between generations in the pond snail *Physa acuta*

Bachelor of Science in Biology, University of Massachusetts at Dartmouth (Summa Cum Laude, Commonwealth Honors Scholar) - May 2015

Publications

Published

Goeppner SR and Luttbeg B (2025) Early life, but not late life, exposure to predator cues reduces the life expectancy and reproductive output of freshwater snails, *Oecologia*

Goeppner SR, Sargunaraj F, Kotler BP, et al. (2024) - No evidence that Mycoplasma infection causes cognitive impairment during foraging in Allenby's gerbil (*Gerbillus andersoni allenbyi*), *Israel Journal of Ecology and Evolution*. DOI: 10.1163/22244662-bja10082

Goeppner SR, Kirsch DR, Ramos K, Wells AM, and Luttbeg B. (2023) Maternal effects, paternal effects and their interactions in the freshwater snail *Physa acuta. Oecologia* 201,409-419, DOI: 10.1007/s00442-022-05311-8

Koch R, **Goeppner SR**, Gustafson K, Bolek M (2022) Seasonal occurrence of *Neoechinorhynchus emydis* (phylum: Acanthocephala) in the freshwater snail, *Planorbella cf. P. Trivolvis*, from Oklahoma. *Journal of Parasitology,* 108(5): 423-434 DOI: 10.1645/21-98

Goeppner SR, Pearce ME, Beaty LE, Luttbeg B (2020). Freshwater snail responses to fish predation integrate phenotypic plasticity and local adaptation. *Aquatic Ecology* DOI: 10.1007/s10452-019-09744-x

Beaty LE, Wormington JD, Kensinger B, Bayley K, **Goeppner SR**, Gustafson K, Luttbeg B. (2016). Shaped by the past acting in the present: transgenerational plasticity of anti-predatory traits. *Oikos* DOI: 10.1111/oik.03114

Submitted

Goeppner SR, Le Sage MJ, and Relyea RA (in review) Salt stratification and predator cues: Impacts on freshwater species depends on habitat choice – In review at Environmental toxicology and chemistry

Le Sage MJ, Goeppner SR, Relyea RA (in review)

Grants

Robberson Dissertation Fellowship, Oklahoma State University (Summer 2020, $6000)

Burk's Research Grant, Oklahoma State University (Spring 2019, $850)

McCarley Research Grant, Southwestern Association of Naturalists (Summer 2017, $1000)

Honorable Mention for NSF Graduate Research Fellowship Program (GRFP; 2017)

Biological Basis of Behavior at Oklahoma State University: NSF-REU Grant (Summer 2014, $5500)

Undergraduate Research Grant from Office of Undergraduate Research at UMass Dartmouth (Spring 2014, amount: $150)

Recent Presentations

Goeppner S, Le Sage M, and Relyea R (2025) Salt stratification and predator cues: Impacts on native and invasive freshwater species. Oral presentation at ESA, August 2025

Goeppner S, Sargunaraj F, and Kotler B (2023). Mycoplasma infection does not affect equalization of GUDs or micro-patch detection in Allenby's gerbils (Gerbillus andersoni allenbyi). Poster at ESA conference, August 2023

Goeppner S & Luttbeg B. (2022) Effect of predator cues on the mating behavior of *Physa acuta* Virtual oral presentation at the Annual meeting of the Southwestern Association of Naturalists, April 2022

Goeppner S & Luttbeg B. (2021) How does body condition affect predator induced within and trans-generational plasticity in *Physa* snails? Virtual oral presentation at the Central Ecology and Evolution Conference, April 10, 2021

Goeppner S & Luttbeg B. (2020). Effects of food restrictions on within-generation and transgenerational response to predators in freshwater snails. Poster Presentation at the Gordon Research conference, Ventura CA, January 26-31, 2020

Goeppner S & Luttbeg B. (2019). Growth, lifespan, and reproductive investment of *Physa* snails exposed to predators. Oral Presentation at the Annual meeting of the Society of Integrative and Comparative Biology, January 3-8, 2020.

Goeppner S & Luttbeg B. (2019). Growth, lifespan, and reproductive investment of *Physa* snails exposed to predators. Oral Presentation at the Annual meeting of the Southwestern Association of Naturalists, Chihuahua Mexico, April 11-14, 2019

Goeppner S, Pearce ME, Beaty LE, & Luttbeg B. (2018). Transgenerational plasticity in snails in response to fish cues. Lunch time seminar at Oklahoma State University and Oral Presentation at the Annual meeting of the Society of Integrative and Comparative Biology, San Francisco CA, January 4-8, 2018.

Goeppner S & Koch R. (2018). Life history traits of a freshwater snail with acanthocephalan and trematode infections. Poster presentation at the Annual meeting of the Society of Integrative and Comparative Biology, San Francisco CA, January 4-8, 2018

Presentations by undergraduates (* mentored by me)

Soriano D, Koch R, **Goeppner S**, & Bolek M. (2018). Energy Allocations and Reproduction in a freshwater snail. Poster Presentation at Karen L. Smith Undergraduate Symposium, April 18, 2018

Moster B* & **Goeppner S**. (2017). Effects of predator cues and food distribution on competition between snails. Poster presentation at Karen L. Smith Undergraduate Symposium, April 19, 2017

Pearce ME*, **Goeppner S**, Beaty L., & Luttbeg B. (2017). Transgenerational responses of freshwater snails to fish predators. Poster presentation at Karen L. Smith Undergraduate Symposium, April 19, 2017

Teaching Experience

Guest lecturer for Animal Behavior at Rensselaer Polytechnic Institute – Social Behavior and Sociality, November 19, 2025

Guest Lecturer for Human Anatomy (BIOL 3214) at Oklahoma State University. Overview of body regions and skeletal system. August 18, 2021

Guest Lecturer for Human Anatomy (BIOL 3214) at Oklahoma State University. Introduction to the nervous system, November 13, 2019.

Wilhm Outstanding Teaching Assistant Award (Department of Integrative Biology, Oklahoma State University) – April 2018

Teaching Assistant for Human Anatomy (BIOL 3214) at Oklahoma State University
(Supervisor: Dr. Mary Towner, January 2017 – May 2022)
-Duties: Assist students with dissections, assess student learning of anatomy structures with in-lab oral quizzes.

Teaching Assistant for Introductory Biology (BIOL 1114) at Oklahoma State University
(Supervisor: Dr. Donald French, August 2015 – December 2016)
-Duties: Assist students as they develop their own research questions and hypotheses, design experiments and write up their results.

Academic Honors

UMass Dartmouth Biology Department Academic Excellence Award - May 2015
Chancellor's List at UMass Dartmouth 6 semesters: (Fall 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015)
Member of UMass Dartmouth Honors Program (Fall 2012- Spring 2015)
Walking with Jane Scholarship (2011-2015)
EP Charlton Scholarship (Academic Year 2014-2015)
John F. Smith Jr. Presidential Scholarship (Academic years 2014-2015 and 2013-2014)
Fall River Endow Scholarship (Academic year 2012-2013)
University Scholarship (From UMass Dartmouth; Academic Year 2012-2013)
Westport Watershed Alliance Scholarship (Fall 2011)
Luther Bowman Scholarship (Fall 2011)

Other Research Experience

Volunteer intake staff in the Oklahoma State University COVID-19 lab (April – June 2020)

-Duties: Unpack COVID samples in lab and check patient information for accuracy.

Research Associate on ODWC project: Assessment of the density and spatial and temporal variation of the American Burying Beetle (*Nicrophorus americanus*) in Oklahoma. (June 2016 – August 2016).

-Duties: Set up and monitor traps to determine the presence of American Burying Beetles at Oklahoma Wildlife Management areas in Eastern Oklahoma.

Research fellow in the Lab of Dr. Guillermo Paz-y-Mino C. at UMass Dartmouth (September 2013-May 2015)

-Duties: Observe and record the social interactions of White winged wood ducks at the Roger Williams Park Zoo using an ethogram and data collection sheets, develop research questions about parent offspring conflict in ducks.

-Honors thesis project (Advisor- Dr. Guillermo Paz-y-Mino C.) - Social interactions between white winged wood ducks (*Cairina scutulata*) at the Roger Williams Park Zoo.

Research fellow in the lab of Dr. Barney Luttbeg at Oklahoma State University (June-August 2014)

-Duties: Assist in snail project: maintain lab snail population, develop research questions and experimental design, perform behavioral assays on snails, photograph snail shells and measure aspects of their morphology, and help analyze data and document results

Professional Skills

Proficient in performing statistical analysis and creating figures with R and Microsoft Excel
Proficient with Image J, TPS software

References – Scott Goeppner

1) Dr. Rick Relyea – Professor at Rensselaer Polytechnic Institute, Post-doc advisor
    a. Email - relyer@rpi.edu
2) Dr. Burt Kotler – Professor at Ben Gurion University, Post-doc advisor
    a. Email – kotler@bgu.ac.il
3) Dr. Barney Luttbeg – Professor at Oklahoma State University, PhD advisor
    a. Email – luttbeg@okstate.edu
4) Dr. Lynne Beaty, Assistant Professor at Penn State
    a. Email - lzb345@psu.edu