

# CURRICULUM VITAE

**Samuel M. Owens**

[Integrative Ecology Lab](#) | Temple University

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## EDUCATION

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### Temple University

**MS Biology** (Spring 2022 – August 2024)

Graduate Advisor: Matthew Helmus, Ph.D

Thesis: “Multi-scale distribution modeling for the Spotted Lanternfly (*Lycorma delicatula*) reveals range expansion and increased risk to important viticultural regions under climate change.”

Graduate Certificate: [Teaching in Higher Education](#)

### Liberty University

**BS Zoology** | minor in Chemistry (2015 – 2019)

Graduate of [Eagle Scholars Leadership Program](#)

## PUBLICATIONS

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Kaniper, S.; Lynch, D.; **Owens, S.M.**; Ibric, L.; Vabishchevich, Y.; Nyantakyi, N.; Chun, F.; Sam, L.; Fabrizio, C.; Hamad, E.; et al. Non-Cardiac Amyloidosis Findings Are Not Increased in African American Carriers of *TTR* V142I with Heart Failure and/or Arrhythmia. *J. Pers. Med.* **2024**, *14*, 271. <https://doi.org/10.3390/jpm14030271>

## TEACHING EXPERIENCE

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- 2022 - Present**      **Graduate Teaching Assistant**  
Department of Biology | Temple University  
Courses: Introduction to Organismal Biology, [Global Change Science: Analytics with R \(gcsaR\)](#)
- 2023 - 2024**      **Guest Lecturer**  
Department of Biology | Temple University  
Lectures: Spatial data analytics with R (Spring 2023 and 2024); GitHub for biology and data science (Spring 2024)
- 2017 - 2019**      **Undergraduate Instructor**  
Department of Biology and Chemistry | Liberty University  
Course: Ecology, field lab
- 2017**              **Undergraduate Teaching Assistant**  
Department of Biology and Chemistry | Liberty University  
Courses: Zoology (2018- 2019) (lead prep TA), Organic Chemistry II (2019)

## PROFESSIONAL EXPERIENCE

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- 2023 - Present**      **Graduate Teaching and Research Assistant**  
Department of Biology | Temple University
- 2022**              **Laboratory Manager**  
Department of Biology | Temple University
- 2020 - 2022**      **Laboratory Assistant**  
Department of Genetics and Biochemistry | Temple University
- 2019**              **Marine Ecotoxicology Summer Research Intern**  
Dauphin Island Sea Laboratory | University of South Alabama
- 2018**              **Intertidal Ecology Summer Intern**  
Shoals Marine Laboratory | University of New Hampshire  
**Won 2<sup>nd</sup> best poster at RARGOM conference**

## RESEARCH PROJECTS

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- 2022 - Current**      **Thesis**  
Integrative Ecology Lab | Temple University  
“Multi-scale distribution modeling for the Spotted Lanternfly (*Lycorma delicatula*) reveals range expansion and increased risk to important viticultural regions under climate change.”  
- We use a multi-scale modeling approach to create a “stage of invasion” metric for established lanternfly populations and viticultural areas.
- 2018**              Aquatic Ecotoxicology Research Lab | Liberty University  
“Toxicological effects of atrazine and glyphosate on a crayfish ectosymbiont (*C. ingens*).”
- 2015 - 2018**      Aquatic Ecotoxicology Research Lab | Liberty University  
“Toxicological effects of atrazine on the Appalachian Brook Crayfish (*C. b. bartonii*).”

## GRANTS

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|--------------------|---------|--|
| <b>2024</b>        | \$270   | TU College of Science and Technology Graduate Travel Award   |
| <b>2024</b>        | \$200   | TU Biology Graduate Student Society Travel Award   |
| <b>2017 - 2018</b> | \$9,800 | Liberty University Provost Research Initiative (PRI) Grant<br>In collaboration with PIs Dr. Kyle Harris, Dr. Todd Allen, Dr. Mark Blais. |
| <b>2017</b>        | \$750   | Virginia Academy of Science  |

## ORAL PRESENTATIONS

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- 2023**              “Where will they strike next? Predicting suitable habitat and the stage of the *Lycorma delicatula* invasion under climate change.” Entomological Society of Pennsylvania Annual meeting

**2018** “Low Level Atrazine Exposure Effects on Crayfish Development.” Big South Undergraduate Research Symposium, Spring 8<sup>th</sup> Annual Meeting

### **POSTER PRESENTATIONS**

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**2018** “Replacement of a Foundation Species in the Lower Intertidal.” Regional Association for Research in the Gulf of Maine (RARGOM).  
**Won Best Poster in Ecology/ Evolution/ Conservation Category.**  
 (did not present, only contributed to research and poster design)

**2018** “Pollution Tolerance of Crayfish Ectosymbionts (Branchiobdellidans).” Virginia Academy of Sciences, Fall Undergraduate Research Proposal Meeting

**2018** “Low Level Atrazine Exposure Effects on Crayfish Development.” Association of Southeastern Biologists, 79<sup>th</sup> Annual Meeting

**2017** “The Effects of a Common Herbicide (Atrazine) on Juvenile Crayfish Growth and Development.” Ecological Society of America Annual Meeting.  
 (did not present, only contributed to research and poster design)

**2017** “Low level Atrazine Exposure Effects on Crayfish Development.” Virginia Academy of Science, Fall Undergraduate Research Proposal Meeting  
**Awarded a \$750 research grant.**

**2016** “The Effects of a Common Herbicide (Atrazine) on Juvenile Crayfish Growth and Development.” Liberty University Research Week Undergraduate Meeting.  
**Won 2<sup>nd</sup> Place Recognition in the Basic Research Category.**

**2016** “The Effects of a Common Herbicide (Atrazine) on Juvenile Crayfish Growth and Development.” Virginia Academy of Science, Fall Undergraduate Research Proposal Meeting.

### **ORGANIZATIONAL MEMBERSHIPS**

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**Executive Treasurer** | TU Biology Graduate Student Society

### **VOLUNTEER EXPERIENCE**

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**2022 - Present** **TU Intervarsity Graduate Christian Fellowship**  
 Chapter Leader and Male Mentor | Temple University

**2023 - Present** **“The Table” Homeless Food Ministry**  
 Volunteer | Kensington, Philadelphia, PA

- 2023 - Present**      **Annual Community Easter Egg Hunt**  
Volunteer | Fishtown, Philadelphia, PA
  
- 2020**              **TRIO Upward Bound- High School Mentorship Program**  
Internship Mentor | Boise State University
  
- 2017 - 2018**    **Parkview Community Mission Food Pantry**  
Volunteer | Lynchburg, VA
  
- 2015 - 2016**    **Community Care Initiative**  
Volunteer | Lynchburg, VA
  
- 2013 - 2014**    **Merriwood Christian Camp**  
Assistant Counselor | Clemmons, NC