

# ALYCIA JOHNSON (SHE/HER)

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## EDUCATION

<b>PhD student</b>	2023-present
Department of Biology, University of Rochester, Rochester, NY	
Advisor: Dr. Floria Mora-Kepfer Uy	
<b>BS</b>	2019-2023
University of Southern Mississippi, Hattiesburg, MS	
Biological Sciences (Conservation Biology)	
<i>summa cum laude</i> , cumulative GPA= 3.9	

## PUBLICATIONS

- Johnson, A. N.**, Cook, H., Reeve, H. K., & Uy, F. M. K., (in prep). *Grouping with non-kin: when potential joiners and residents should be mutually accepting*.
- Robinson, K. M., Mabry, Z. C., Schonekas, H., Robles López, K. Y., **Johnson, A. N.**, Cipriani, G., Nguyen, A., Ziemke, C. H., Baudier, K. M. (in press). Is disturbance stridulation in the passalid beetle *Odontotaenius disjunctus* a form of social communication? *Insectes Sociaux*.
- Johnson, A.**, Ziemke, C. H., Yee, D. A., & Baudier, K. M. (2024). Notes on the natural history and climatic specializations of an endemic Caribbean paper wasp (Hymenoptera: Vespidae: *Mischocyttarus phthisicus*). *Caribbean Naturalist*. 96, 1-8.

## HONORS AND AWARDS

<b>IUSSI-NAS Student &amp; Postdoc Travel Award (\$770)</b>	2024
<b>Donald Drapeau Prize for Excellence in a Research Presentation (\$200)</b>	2023
USM Undergraduate Research Symposium: Third place poster award	
<b>President's List</b>	Fall 2019, Spring 2020, Fall 2022, Spring 2023
<b>Dean's List</b>	Fall 2020, Spring 2021, Fall 2021

## RESEARCH EXPERIENCE

<b>PhD Rotations</b> , University of Rochester	2023-2024
Advisors: Dr. Floria Uy, Dr. Jennifer Brisson, Dr. John Albert Uy	
<ul style="list-style-type: none"><li>• <i>Mischocyttarus mexicanus</i> relatedness within and across populations</li><li>• Wing asymmetries and handedness in aphid lines</li><li>• Whole genome scans for climatic selection in a widespread social wasp</li></ul>	
<b>Undergraduate Research Assistant</b> , University of Southern Mississippi	2021-2023
Advisor: Dr. Kaitlin Baudier	
<ul style="list-style-type: none"><li>• Winter Thermal Tolerances of Mexican Paper Wasps (<i>Mischocyttarus mexicanus</i>)</li><li>• Natural History of <i>Mischocyttarus phthisicus</i>, a common paper wasp of Puerto Rico</li></ul>	
<b>Summer Undergrad Research Assistant</b> , University of Southern Mississippi	2022
Advisor: Dr. Donald Yee	
<ul style="list-style-type: none"><li>• Luquillo LTER Leaf Litter Arthropod Sampling</li><li>• Thermal Ecology of Ants in the Luquillo Mountains, Puerto Rico</li></ul>	

## CONFERENCE PRESENTATIONS

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- Johnson, A.**, Ferro, J. M., Uy, J. A., & Uy, F. M. K. (7 August 2024). *Whole genome scans for climatic selection in a widespread social wasp*. International Union for the Study of Social Insects-NAS Breakout Meeting, Prescott, AZ.
- Serio, J., Robinson, K., **Johnson, A.**, & Baudier, K. (22 April 2023). *Flight willingness behavior within the soldier caste of *Tetragonisca angustula**. Undergraduate Symposium on Research and Creative Activity, Hattiesburg, MS.
- Robinson, K. M., **Johnson, A.**, Mora-Kepfer Uy, F., & Baudier, K. M. (4 July 2022). *Biogeography of thermal performance in the subtropical paper wasp *Mischocyttarus mexicanus cubicola**. International Union for the Study of Social Insects (IUSI), San Diego, CA.

## CONFERENCE POSTERS

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- Johnson, A.**, Ferro, J. M., Uy, J. A., & Uy, F. M. K. (24 August 2024). *Whole genome scans for climatic selection in a widespread social wasp*. Great Lakes Annual Meeting of Evolutionary Genomics 2024, Syracuse, NY.
- Robinson, K., Mabry, Z., Schonekas, H., Lopez, K. R., **Johnson, A.**, Cipriani, G., Nguyen, A., Ziemke, C., & Baudier, K. (7 November 2023). *Does disturbance stridulation in the passalid beetle *Odontotaenius disjunctus* function as a form of social communication?* Entomological Society of America, National Harbor, MD.
- Johnson, A.**, Ziemke, C., Yee, D., Baudier, K. (22 April 2023). *Notes on the natural history and climatic specializations of a Caribbean endemic paper wasp*. Undergraduate Symposium on Research and Creative Activity, Hattiesburg, MS.
- Guild, T., Robinson, K., **Johnson, A.**, & Baudier, K. (22 April 2023). *Exploring the adaptive function of overwintering behavior in the paper wasp *Mischocyttarus mexicanus**. Undergraduate Symposium on Research and Creative Activity, Hattiesburg, MS.

## TEACHING & MENTORING EXPERIENCE

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- Graduate Teaching Assistant**, University of Rochester 2024-2025  
**BIOL267: Human Evolutionary Genetics**  
Lead journal article discussions, answered student questions, graded assignments
- Undergraduate Mentees**  
Aditi Jasapara, 2024-current  
Aidan Craner, 2024-current

## SERVICE

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- Highlands at Pittsford Retirement Community** August 2024  
Guest speaker, Rochester
- Graduate Student Recruitment Committee** October 2023- present  
Member, University of Rochester
- Mississippi Inland & Coastal Cleanup Programs** February 2021- March 2021  
Volunteer, Mississippi
- Hattiesburg Zoo Animal Care Program** September 2019- December 2019  
Volunteer Animal Care Assistant, Mississippi

## MEMBERSHIP & PROFESSIONAL ORGANIZATIONS

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<b>International Union for the Study of Social Insects</b>	2024-present
<b>Society for the Study of Evolution</b>	2024-present
<b>Beta Beta Beta</b> , University of Southern Mississippi	2020-2023

## SKILLS

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**Computer:** RStudio, Python, Microsoft Office, basic GIS, Google Docs, Box, data analysis, genome assembly

**Laboratory:** use of heat and cold dry baths, data entry & management, insect pinning & preservation, use of microbalance, DNA extractions, morphological measurements

**Field:** data collection, GPS, iButton setup, sweep netting, insect pitfall traps, aspirator collecting, hiking, Winkler extraction, hand lens

**Personal:** collaboration, problem-solving, organization, task management, time management

## REFERENCES

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<b>Dr. Floria Mora-Kepfer Uy</b> Assistant Professor Department of Biology University of Rochester Email: floria.uy@rochester.edu	<b>Dr. Kaitlin Baudier</b> Assistant Professor School of Biological, Environmental & Earth Sciences University of Southern Mississippi Email: Kaitlin.Baudier@usm.edu
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