Hanna Kate Jewell

University of Notre Dame
McCourtney Hall East 3030
Notre Dame, IN, 46556-5645

hjewell@nd.edu
860-709-1560
hannajewell.weebly.com

Education

Ph.D., University of Notre Dame, Notre Dame, IN — 2022 – Present
Program: Biological Sciences
Area of study: Ecology, Evolution, & the Environment
GPA: 4.0/4.0

B.S., Boston College, Chestnut Hill, MA — 2018 – 2022
Major: Biology
Concentration: Physiology & Organismal Biology
GPA: 3.815/4.0, *magna cum laude*

Research Experience

University of Notre Dame, Notre Dame, IN — 2022 – Present
Ph.D. Student
Advisor: Dr. Julián Torres-Dowdall
"Adaptations to seasonality: latitudinal differences in the life histories and phenologies of mosquitofish"

Boston College, Chestnut Hill, MA — 2021 – 2022
Undergraduate Research Assistant
Advisor: Dr. Eric S. Folker
"Nuclear positioning in the blood-brain barrier is LINC complex dependent"

Grants and Awards

Outstanding Graduate Student Leader of the Year — 2025
*"*Recognizes a student or students who have exhibited outstanding leadership and made a unique contribution to the community*"*

Kaneb Center Outstanding Graduate Student Teaching Award — 2025
"Recognizes graduate students who demonstrate excellent teaching at Notre Dame"
$100

Graduate Student Government Conference Presentation Grant, 2024
$250

American Livebearer Association Langhammer Grant, 2024
$1000

Teaching and Mentorship Experience

Research Mentor, University of Notre Dame 2022 – Present
Undergraduates:
Giovanni Mammola
Nikki Shirojan
Daniel Guererra
Clayton Glasgow
Grace Krane
Charlotte Thompson
High School Students:
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-
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Graduate Teaching Assistant, 2022 – Present
University of Notre Dame,
Notre Dame, IN
Courses:
Biological Investigations, Kristin Lewis M.Sc. (Spring 2024)
Research Experience in Biology, Dr. T. Mark Olsen (Fall 2023)
General Ecology Lab, Dr. Dominic Chaloner (Fall 2022)

Undergraduate Teaching Assistant, 2021 – 2022
Boston College,
Chestnut Hill, MA
Courses:
Molecular Biology, Dr. Anthony Annunziato (Spring 2022)
General Biology, Dr. Anthony Annunziato (Fall 2021)

Publications

1. Jewell H.K., Noguera C.A., Hael C.E., Torres-Dowdall J., Aguilera G. (2023) Association of reproduction with seasonality in a subtropical viviparous fish, Jenynsia tucumana (Cyprinodontiformes: Anablepidae). Canadian Journal of Zoology.

Oral Presentations

1. Jewell H.K. Adaptations to Seasonality: Latitudinal Differences in the Phenotypes and Physiologies of Mosquitofish. Biology Friday Afternoon Seminar Series, University of Notre Dame, Notre Dame IN, November 1 2024.
2. Jewell H.K. Adaptations to seasonality: latitudinal differences in the reproductive phenologies of mosquitofish. Biology Friday Afternoon Seminar Series, University of Notre Dame, Notre Dame IN, October 6 2023.
3. Jewell H.K., Noguera C.A., Hael C.E., Torres-Dowdall J., Aguilera G. Seasonal impacts on the reproductive aspects of *Jenynsia tucumana*. Biology Friday Afternoon Seminar Series, University of Notre Dame, Notre Dame IN, April 14 2023.

Poster Presentations

1. Jewell H.K, Torres-Dowdall J. Adaptations to seasonality: Latitudinal differences in life history traits in *Gambusia affinis*. University of Notre Dame Graduate Student Poster Sessions, University of Notre Dame, Notre Dame, IN January 24 2025.
2. Jewell H.K, Torres-Dowdall J. Adaptations to seasonality: Latitudinal differences in life history traits in *Gambusia affinis*. University of Notre Dame BIOS Retreat 2025 Poster Session, University of Notre Dame, Notre Dame, IN January 10 2025.
3. Jewell H.K, Torres-Dowdall J. Adaptations to seasonality: Latitudinal differences in life history traits in *Gambusia affinis*. 11th International Conference of Poeciliid Biologists, San Marcos, TX, October 10 2024.
4. Hanna K. Jewell, Noguera C.A., Hael C.E., Torres-Dowdall J., Aguilera G. Association of reproduction with seasonality in a subtropical viviparous fish, *Jenynsia tucumana*. 3rd Joint Congress on Evolutionary Biology, Montreal QC, Canada, July 29 2024.
5. Hanna K. Jewell. Variation in reproductive phenology along a latitudinal gradient. University of Notre Dame Graduate Student Poster Sessions, University of Notre Dame, Notre Dame, IN, January 27 2024.
6. Hanna K. Jewell. Reproductive Adaptations to Seasonality. University of Notre Dame Graduate Student Poster Sessions, University of Notre Dame, Notre Dame, IN, January 27 2023.
7. Alexandra A. Burgess, Hanna K. Jewell, Eric S. Folker. Spacing of nuclei in the Drosophila blood-brain barrier is LINC complex-dependent. Boston College Undergraduate Research Day, Boston College, Chestnut Hill, MA, April 29 2022.

Certifications

Striving for Excellence in Teaching Certification, 2022
issued by the Kaneb Center for Teaching Excellence,
University of Notre Dame

National Certification in Bystander Intervention, 2022
issued by GreeNDot, University of Notre Dame

Leadership and Volunteering

La Casa de Amistad Volunteer 2025 – Present
K-12 STEM Enrichment Program

Center for Broader Impacts 2025 – Present
High School Research Internship Mentor

Quality of Life Co-Chairperson, 2024 – Present
Notre Dame Graduate Student Government

Recruitment Co-Chairperson, 2023 – 2025
Notre Dame Biology Graduate Student Organization

Biology Departmental Representative, 2023 – 2024
Association of Women in Science Notre Dame Chapter

Co-Coordinator, 2023
Notre Dame Ecology Seminar Series (BioFrass)

Judge 2023
University of Notre Dame College of Science,
Joint Annual Meeting

Judge 2023, 2024
Northern Indiana Regional Science & Engineering Fair

Graduate Student Representative, 2023
Faculty Search Committee

Organization Memberships

Graduate Students Against Racial Injustice 2023 – Present

Biology Graduate Student Organization 2022 – Present

Association of Women in Science 2022 – Present

Professional Memberships

Society for Integrative and Comparative Biology 2025 – Present

American Livebearer Association 2023 – Present

Society for the Study of Evolution 2022 – Present

References

Dr. Julián Torres-Dowdall
University of Notre Dame
3030 McCourtney Hall East
Notre Dame, IN 46556
torresdowdall@nd.edu
(574) 632 – 6597

Dr. Stuart Jones
Annis Water Resources Institute
Grand Valley State University
740 West Shoreline Drive
Muskegon, MI 49441
jonesstu@gvsu.edu
(616) 331 – 3749

Dr. Eric Folker
Boston College
Higgins Hall 578
Chestnut Hill, MA 02467
Eric.folker@bc.edu
(617) 552 – 1809