

Jordan Alexander Lewis

Assistant Research Professor | Dept. of Biological Sciences | The University of South Carolina
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EDUCATION

Institution	Location	Degree	Completed	Field of Study
Emory University	Atlanta, GA	Ph.D.	2022	Population Biology, Ecology, & Evolution
Emory University	Atlanta, GA	Certificate	2021	Bioethics
Winthrop University	Rock Hill, SC	B.S.	2017	Biology and Environmental Science

PROFESSIONAL EXPERIENCE

University of South Carolina, Columbia, SC

Assistant Professor, August. 2026

Department of Biological Sciences

Research Foci: Host-Parasite Interactions, Adaptation, Disease Ecology, Recreational Water Monitoring

University of South Carolina, Columbia, SC

Assistant Research Professor, August. 2024 – August. 2026

Department of Biological Sciences

Bridge to Faculty Fellowship Program

Yale University, New Haven, CT

Postdoctoral Research Fellow, October. 2022 - August. 2024

Advisor: [Paul Turner, Ph.D.](#)

Department of Ecology and Evolutionary Biology

Research Focus: Dynamics of Host-Pathogen evolution and associated tradeoffs

Emory University, Atlanta, GA

Graduate Research Assistant, August. 2018 - October 2022

Advisor: [Levi Morran, Ph.D.](#)

Department of Biological Sciences

Research Focus: Evolution of Host Defenses in *Caenorhabditis elegans*

University of Notre Dame, South Bend, IN

Summer Research Student, May 2016 - August 2016

Advisor: [Hope Hollocher, Ph.D.](#)

Department of Biological Sciences

Research Focus: Prevalence of *Plasmodium knowlesi* in macaques of Bali, Indonesia

Winthrop University, Rock Hill, SC

Undergraduate Research Assistant, May 2014 - May 2017

Advisors: [Matthew Heard, Ph.D.](#) and [Victoria Frost, Ph.D.](#)

Department of Biological Sciences

Research Focus: Impact of coastal engineering on beach microbial communities

GRANTS & FELLOWSHIPS

Total Awarded: \$311,000

Honors College Student Research Grant to Charles Johnson, USC
2026, \$4,500

Journey Early Researchers Grant to Aniya Ravenell, USC
2026, \$1,000

Postdoctoral Fellowship in Biology, National Science Foundation
2022 - 2024, \$138,000

Local and Regional Outreach Small Grant, Society for the Study of Evolution
2023, \$1,000

Nat C. Robertson Fellowship in Science and Society, Institute for Liberal Arts. Emory University
2021 - 2022, \$15,000. **Inaugural Award Year*

Diversifying Graduate Education Fellowship, Laney Graduate School. Emory University
2020 - 2021, \$10,000

Pat Marsteller Fund for Teaching Excellence Travel Grant. Emory University
2018, \$500

Initiative to Maximize Student Development (NIH IMSD). Emory University
2017 - 2020, \$3,000

Graduate Research Fellowship in Biology, National Science Foundation
2017 - 2020, \$138,000

PUBLISHED MANUSCRIPTS

ORCID:0000-0001-9684-3763

Lewis JA, Turner PE, Chan BK, Vong G. (2026). Phage therapy and global health equity: Opportunities in the era of antibiotic resistance. *Annu. Rev. Virol.* 13:3.1 - 3.20.
<https://doi.org/10.1146/annurev-virology-092623-110310>

Lewis JA, Frost VJ, Heard MJ. (2024). Examining the potential impacts of a coastal renourishment project on the presence and abundance of *Escherichia coli*. *PLOS ONE*, 19(5): e0304061.
<https://doi.org/10.1371/journal.pone.0304061>.

Lewis JA, Kandala PA, Penley MJ, Morran LT. (2023). Gene flow accelerates adaptation to a parasite. *Evolution*, 77 (6), 1468–1478. <https://doi.org/10.1093/evolut/qpad048>.

Lewis JA, Penley MJ, Ahumada SD, Sylla HA, Morran LT. (2022). Antagonistic coevolution limits the range of host defense in *C. elegans* populations. *Frontiers in Cellular and Infection Microbiology*, 12. <https://www.frontiersin.org/articles/10.3389/fcimb.2022.758745>.

Lewis JA & Morran LT. (2022). Advantages of laboratory Natural Selection in the Applied Sciences. *Journal of Evolutionary Biology*, 35, 5– 22. <https://doi.org/10.1111/jeb.13964>.

MANUSCRIPTS ACCEPTED, SUBMITTED, OR UNDER REVIEW

Lewis JA, Decker MB, Turner CA, Kane EA, Turner PE. (In Revision). Enterococci in sand and water at Connecticut beaches following an extreme rain event. *Estuaries and Coasts*.

MANUSCRIPTS IN PREPARATION

Lewis JA, Blazanin M, Kane EA, An WA, Turner PE. (In Preparation). Exploring tradeoffs between virulence and host defense in *Pseudomonas aeruginosa*. *Evolution*.

Lewis JA & Dudycha JL. (In Preparation). The enhanced need for Bioethical training for Research Biologists Across Fields in a polarized political climate. *Current Biology*.

Lewis JA. (In Preparation). The Current state of bacteriophage therapy for Neglected Tropical and Poverty-Related diseases. *PLOS Neglected Tropical Diseases*.

HONORS & AWARDS

Commencement Student Marshall, Laney Graduate School. Emory University. 2023

Scholar of the Year, Population Biology, Ecology & Evolution Program. Emory University. 2022

Keith Wilkinson Graduate Service Award, Laney Graduate School. Emory University. 2022

Edward A. Bouchet Graduate Honor Society Inductee, Emory University Chapter. 2021

INVITED RESEARCH SEMINARS

University of South Carolina. Biology Department Program Seminar. 2026

University of South Carolina Beaufort. Weekly Seminar in Science. 2026

Louisiana State University. Systematics, Ecology, and Evolution Seminar Series. 2025

University of Virginia. Next Gen. Leaders in Biology Symposium. 2024

Pennsylvania State University. Center for Infectious Disease Dynamics Seminar. 2024

University of South Carolina. Bridge to the Faculty Seminar. 2024

University of South Carolina. Biology Department Program Seminar. 2024

Rutgers University. Department of Ecology, Evolution, and Natural Resources Seminar. 2023

Northern Arizona University. The Pathogen & Microbiome Institute Seminar. 2023

Emory University. Population Biology, Ecology, and Evolution Seminar Series. 2019 - 22

Winthrop University. Biology Department Seminar. 2018 & 22

NATIONAL & REGIONAL PRESENTATIONS** & POSTERS*

\$ Virtual Presentation

Tri-Society Evolution Conference. *Athens, GA*. ** 2025

Tri-Society Evolution Conference. (3rd Joint Congress w/European Society). *Montreal, QC, CAN*. * 2024

Microbial Population Biology Gordon Research Conference. *Andover, NH*. * 2023

Tri-Society Evolution Conference. *Albuquerque, NM*. ** 2023

Ecology & Evolution of Infectious Disease International Conference. *State College, PA*. * 2023

Tri-Society Evolution Conference. *Cleveland, OH*. ** 2022

Ecology & Evolution of Infectious Disease International Conference. *Atlanta, GA*. * 2022

17th Annual Bouchet Conference on Diversity and Graduate Ed. *New Haven, CT*. **\$ 2021

Annual Biomedical Research Conference for Minority Students. *San Antonio, TX.* * 2019
 Southeastern Population Ecology and Evolutionary Genetics Conference. *Pembroke, VA.** 2018
 [Won Best Graduate Student Poster]

INVITED WORKSHOPS & PUBLIC PRESENTATIONS

Universal Design for Learning Faculty Short Course. University of South Carolina. 2025
 Homecoming Encore Lecture Series. Winthrop University. 2024
 Microbiology Skills Workshop. University of South Carolina Biology Department. 2024
 Skills for Advanced Biology Careers Workshop. SACNAS NDiSTEM Conference. 2023
 Future Faculty Workshop. Notre Dame University. 2023
 Eagle Stem Freshman Seminar. Winthrop University. 2022 - 24
 Problem-Based Learning Workshop. CIRTL National Network. University of Delaware. 2018
 Winthrop Speaks: Vol II. Community Lecture Series. Winthrop University. 2018

FACILITATED WORKSHOPS & TRAININGS

University of SC. Office of Undergrad Research. Research Ethics and the Bigger Picture. 2025
 University of SC. Office of Undergrad Research. Summer Research Ethics Training. 2025
 Yale University. Biospheric Institute SURE: Responsible Conduct of Research. 2023 & 2024
 Emory University. SURE: Responsible Conduct of Research Summer Workshop. 2021 - 22
 Winthrop McNair Program, Summer Graduate Application & Fellowship Workshop. 2018 -

TEACHING & MENTORSHIP

Appointments

^=lectured Σ =developed curriculum

Term	Institution	Course Title	Code	Role	Enrollment	Mean Evaluation
SP 22	Emory University	Bioethical Issues of the 21 st Century	Interdisciplinary Studies 385: Special Topics	Sole Instructor Σ	23	3.95/4.00
FA 21	Emory University	Medical & Scientific Uncertainty	Interdisciplinary Studies 205W: Science & the Nature of Evidence	Lead Instructor Σ	14	3.86/4.00
SU 21	Emory University	Thought Experiments in Bioethics	Bioethics 505: Graduate Special Topics	Lead Instructor Σ	7	4.00/4.00
FA 19	Emory University	Ecology Laboratory	Biology 247LW	Field Assistant	22	NA
SP 19	Emory University	Ecology	Biology 247	Teaching Assistant [^]	68	NA
FA 18	Emory University	Ecology Laboratory	Biology 247LW	Field Assistant	22	NA
SP 18	Emory University	Evolutionary Biology	Biology 241	Teaching Assistant [^]	65	NA
FA 17	Winthrop University	Principles of the Learning Academy	Academy 101	Upperclassman Co-teacher [^]	20	NA

FA 16	Winthrop University	Principles of the Learning Academy	Academy 101	Upperclassman Co-teacher ^	18	NA
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Undergraduate Lab Mentees

Student	Year(s) Mentored	Current Position
Charles Johnson	SP 2026 -	1 st year Biology Undergraduate. USC
Freddie Amos	SP 2026 -	3 rd Year Biology Undergraduate. USC
Aniya Ravenell	SP 2025 -	2 nd year Biology Undergraduate. USC
Jessie Thompson	SP 2025 -	4 th year Biology Undergraduate. USC
Matt Appel	2023 - 2024	Master's Student. Univ. of North Carolina Chapel Hill
Emma Kane	2023 - 2024	Postgraduate Researcher at Yale University
Claire Turner	Summer 2023	Univ. of Conn. Graduate. BS in Natural Resources Mgt.
Elizabeth Chong	2021 - 22	University of Texas- Houston. DDS Class of 2026
Maggie Weber	2021 - 22	Yale University. PhD Student. Evolution & Ecology
Vanessa Rodriguez	2020 - 21	Tufts Dental School. DDS Class of 2025
Hannan Syllah	2019 - 21	Harvard Medical School. MD class of 2025

Graduate Thesis Committees Served On

Student	Degree	Advisor(s)	Current Position
Suzannah Bozarth	MS	Timothy Mousseau	MS Student - USC

Guest Lectures Given: Comparative Immunology (Texas State University), Advanced Microbiology (University of SC, SPR & FA 25), Principles of Microbiology (University of SC, SPR & FA 25), Disease Ecology (Yale University, 24), Principles of Communication (University of Maryland, 23), Freshman Evolution Seminar (Emory University, 19).

SERVICE, ENGAGEMENT, & LEADERSHIP

The Profession

Co-Chair, Access, Inclusion, and Community Committee. Society for the Study of Evolution. 2026-

Organizer, Black at Evolution Networking and Mentorship Lunch. 2025 -

Reviewer, National Science Foundation Graduate Research Fellowship Program. 2024

Organizer, John Edmonstone BIPOC Networking Hour. Society for the Study of Evolution. 2024-2025

Diversity Committee, Society for the Study of Evolution. 2023 - 2026

Postdoctoral Fellowship Group Mentor, National Evolution Meeting. 2023 & 24

Undergraduate Diversity Mentor, National Evolution Meeting 2022,24,25

Ad Hoc Reviewer for: *The Journal of Applied Microbiology, Evolution, Evolution Letters, Proceedings of the Royal Society B: Biological Sciences, United States Geological Survey, Animal Ecology, Health Sciences Reports*

Professional Memberships: Society for the Study of Evolution, The American Society of Naturalists, International Society for Evolution, Medicine, and Public Health.

The University

Co-Chair, Seminar Committee, University of SC Department of Biological Sciences. 2025 -
Panelist, SROP Alumni and Career Panel. Notre Dame University. 2023
Founding Committee, Emory BLUE (Black Men at Laney United in Excellence), 2021 - 22
Selection Committee, Provost Distinguished Teaching Award, 2021
Executive Board, Emory Conference on Social Disparities, Inequities, and Injustice 2020 - 22
Asst. Research Coordinator, Health Prep Summer Research Program. Emory University. 2019 - 21
Coordinator, PBEE Graduate Program Ethics Seminar. 2019 - 22
VP & Grad Judicial Committee Chair, Laney Graduate School Student Council. 2019 - 20
Social Programming Chair, Laney Graduate School Student Council. 2018 - 2019

The Community

Head High School Life Sciences Judge, University of South Carolina Science & Engineering Fair. 2026
Challenger Shuttle 40th Anni. Program Speaker, Florence County (SC) School District III. 2026
High School Life Sciences Judge, University of South Carolina Science & Engineering Fair. 2025
Environmental Science Career Panel, Belmont University. 2023
Ronald E. McNair Day Speaker, Florence County (SC) School District III. 2023
College & Career Guest Speaker, Ridge Road Middle School. Charlotte, NC. 2021
Presenter, STEM in the Classroom: Atlanta Science Festival. 2020
Panelist, Selecting a Laboratory in Graduate School. Emory University. 2020
Career Day Speaker, Liberty Middle School. Covington, GA. 2019
Panelist, Summer Research Experience Career Panel. Emory University. 2018