

## Jordan Alexander Lewis

NSF Postdoctoral Research Fellow, Yale University  
165 Prospect Street, New Haven, CT, 06520 | Jordan.lewis@yale.edu | 8037476388 | [jordanlewisphd.com](http://jordanlewisphd.com)

### EDUCATION

---

**PhD in Population Biology, Ecology, and Evolution** Aug 2017 – Oct 2022  
**Doctoral Certificate in Bioethics**  
Emory University, Atlanta, GA

**BS in Biology and Environmental Science** Aug 2013 – May 2017  
Winthrop University, Rock Hill, SC

### PROFESSIONAL APPOINTMENTS

---

**National Science Foundation Postdoctoral Research Fellow**  
Yale University New Haven, CT  
Department of Ecology and Evolutionary Biology Oct 2022 –  
Advisor: [Paul Turner](#), PhD  
Research: Characterizing patterns of bacteria-phage coevolution in *Listeria* and *Salmonella*.

**National Science Foundation Graduate Research Fellow**  
Emory University Atlanta, GA  
Department of Biology Aug 2017 – Oct 2022  
Advisor: [Levi Morran](#), PhD  
Dissertation: The influence of evolutionary reciprocity and genetic architecture on the evolution of host defense in *Caenorhabditis elegans*.

**Summer Research Assistant**  
University of Notre Dame South Bend, IN  
Department of Biology May 2016 – Aug 2016  
Advisor: [Hope Hollocher](#), PhD  
Research: Prevalence of *Plasmodium knowlesi* near human populations in macaques of Bali, Indonesia.

**Undergraduate Research Assistant**  
Winthrop University Rock Hill, SC  
Department of Biology May 2014 – May 2017  
Advisors: [Matthew Heard](#), PhD & [Victoria Fost](#), PhD  
Research: Impact of Renourishment on the Distribution and Abundance of *E. Coli* at Folly Beach, SC.

### PUBLICATIONS

<sup>A</sup>= undergraduate student

**Lewis JA**, Frost VJ, Heard MJ. (*Accepted*). Examining the potential impacts of a coastal renourishment project on the presence and abundance of *Escherichia coli*. *PLOS ONE*.

**Lewis JA**, Kandala P<sup>A</sup>, 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 H<sup>A</sup>, Morran LT. (2022). Antagonistic coevolution limits the range of host defense in *C. elegans* populations. *Frontiers in Cellular and Infection Microbiology*, 12. <https://doi.org/10.3389/fcimb.2022.758745>

**Lewis JA** & Morran LT. (2021). Advantages of laboratory natural selection in the applied sciences. *Journal of Evolutionary Biology*, 35, 5– 22. <https://doi.org/10.1111/jeb.13964>

## MANUSCRIPTS SUBMITTED OR IN PREP

<sup>A</sup>= undergraduate student

**Lewis JA**, Turner PE, Chan BK, Vong G. (Invited Review 2024). Advancing Health and Healthcare Equity through Phage Therapy. *Annual Review of Virology*.

**Lewis JA**, Decker MB, Turner C<sup>A</sup>, Kane E<sup>A</sup>, Turner PE. (Submitted). Climate Change, Extreme Rain Events, and Fecal Indicator Bacteria: A Case Study on the Connecticut Coast. *Marine Pollution Bulletin*.

**Lewis JA**, Blazanin M, Kane E<sup>A</sup>, An W<sup>A</sup>, Turner P. (In Prep). Exploring Tradeoffs between Virulence and Host Defense in the Opportunistic Bacterial Pathogen *Pseudomonas aeruginosa*. *TBD*.

## FUNDING & FELLOWSHIPS

<sup>A</sup>= student trainee

Cystic Fibrosis Foundation Student Trainee Award to Emma Kane <sup>A</sup>	2024
Society for the Study of Evolution Local & Regional Outreach Small Grant	2023
<a href="#">Postdoctoral Research Fellowship in Biology</a> , National Science Foundation	2022 – 24
<a href="#">Inaugural Nat C. Robertson Fellowship in Science &amp; Society</a> , Emory University	2021 – 22
<a href="#">Emory Diversifying Graduate Education (EDGE) Fellowship</a> , Emory University	2020 – 21
Pat Marstellar Fund for Teaching Excellence Travel Grant, Emory University	2018
Graduate Research Fellowship, National Science Foundation	2017 – 20
Laney Graduate Fellowship, Emory University	2017 – 22
Initiative to Maximize Student Development Fellowship, Emory University	2017 – 19
Summer Research Opportunities Program, University of Notre Dame	2016
Palmetto Life Scholarship w/ Stem Enhancement, Winthrop University	2013 – 17

## HONORS & AWARDS

PBEE= Population Biology, Ecology & Evolution Graduate Program

Laney Graduate School Commencement Student Marshal, Emory University	2023
PBEE Scholar of the Year, Emory University	2022
Keith Wilkinson Graduate Service Award, Emory University	2022
<a href="#">Edward A. Bouchet Graduate Honor Society</a> , Emory University Chapter	2021–
Outstanding Undergraduate in a Grad. Course: Organic Evolution, Winthrop University	2016
<a href="#">National Ronald E. McNair Scholar</a> , Winthrop University	2015 – 17
Eagle STEM Scholar, Winthrop University	2013 – 17
Dean's List, Winthrop University	3 semesters

## INVITED RESEARCH SEMINARS

University of South Carolina. Bridge to the Faculty Research Seminar.	2024
University of South Carolina. Biology Department Seminar Series.	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. (x3)	2019 – 22
Winthrop University. Biology Department Seminar. (x2)	2018 & 22

### **NATIONAL & REGIONAL PRESENTATIONS\* AND POSTERS\*\*** \$ Virtual Presentation

Microbial Population Biology Gordon Research Conference. <i>Andover, NH.</i> *	2023
Tri-Society Evolution Conference. <i>Albuquerque, NM.</i> *	2023
Ecology & Evolution of Infectious Disease International Conference. <i>State College, PA.</i> **	2023
Tri-Society Evolution Conference. <i>Cleveland, OH.</i> *	2022
Ecology & Evolution of Infectious Disease International Conference. <i>Atlanta, GA.</i> **	2022
17th Annual Bouchet Conference on Diversity and Graduate Education. <i>New Haven, CT.</i> **\$	2021
Annual Biomedical Research Conference for Minority Students (ABRCMS). <i>San Antonio, TX.</i> *	2019
Southeastern Population Ecology and Evolutionary Genetics Conference. <i>Pembroke, VA.</i> **	2018
<b>[Won Best Graduate Student Poster]</b>	
Association of Southeastern Biologists Annual Conference. <i>Montgomery, AL.</i> *	2017
<b>[Won Outstanding Oral Microbiology Presentation]</b>	
Emory STEM Symposium. <i>Atlanta, GA</i> **	2016
National Council on Undergraduate Research Annual Conference. <i>Ashville, NC.</i> *	2016
Southeastern Association of Educational Opportunity Program Personnel	2015
McNair Research Conference. <i>Atlanta, GA.</i> * <b>[3rd place in Oral Life Sciences Division]</b>	

### **LOCAL PRESENTATIONS\* AND POSTERS\*\*** \$ Virtual Presentation

Yale Department of Ecology and Evolutionary Biology Seminar Series. <i>New Haven, CT.</i> *	2023
Emory Graduate Research Interdisciplinary Team of Scholars. <i>Atlanta, GA.</i> * \$	2022
Worm Club: Emory – GA Tech C. Elegans Laboratories. <i>Atlanta, GA.</i> * \$	2021
18th Annual Emory Graduate Division of Biomedical and Biological Sciences Research Symposium. <i>Atlanta, GA.</i> *\$ <b>[Won 2nd place in Flash Talk Division]</b>	2021
Population Biology, Ecology, and Evolution Graduate Program Retreat. <i>Roswell, GA.</i> *	2019
16th Annual Emory Graduate Division of Biomedical and Biological Sciences Research Symposium. <i>Atlanta, GA.</i> **	2019
Winthrop Showcase of Undergraduate Research and Creative Endeavors. <i>Rock Hill, SC.</i> **	2017
Notre Dame Summer Research Opportunities Symposium. <i>Notre Dame, IN.</i> *	2016
Winthrop University Biology Seminar- Undergraduate White Coat Ceremony. <i>Rock Hill, SC.</i> *	2016
Water in the World: Interdisciplinary Approaches to Access and Sustainability. <i>Rock Hill, SC.</i> *	2015
South Carolina McNair Research Symposium. University of South Carolina. <i>Columbia, SC.</i> *	2015
Winthrop University Undergraduate Research Symposium. <i>Rock Hill, SC.</i> *	2014

### **INVITED PRESENTATIONS & WORKSHOPS**

<a href="#">SACNAS NDiSTEM</a> Conference. Developing Skills for Advanced Biology Careers Workshop.	2023
Notre Dame University. Future Faculty Workshop.	2023
Winthrop University. Eagle Stem Freshman Seminar.	2022 & 23
University of Delaware. Problem Based Learning Workshop. Center for the Integration of Research, Teaching, and Learning ( <a href="#">CIRTL</a> ) National Network.	2018
Winthrop University. Winthrop Speaks: Vol II.	2018

## FACILITATED WORKSHOPS & TRAININGS

Yale University. Biospheric Institute SURE: Responsible Conduct of Research.	2023–24
Emory University. SURE: Responsible Conduct of Research Summer Workshop.	2021– 22
Winthrop McNair Program, Graduate Application & Fellowship Workshop.	2018–

## TEACHING & MENTORSHIP

^=lectured  $\Sigma$ =developed curriculum

### Appointments

Term	Institution	Course Title	Code	Role	Enrollment	Mean Evaluation
SP 22	Emory University	Bioethical Issues of the 21 <sup>st</sup> Century	Interdisciplinary Studies 385: Special Topics	Sole Instructor $\Sigma$	23	3.95/4.00
FA 21	Emory University	Medical & Scientific Uncertainty	Interdisciplinary Studies 205W: Science & the Nature of Evidence	Lead Instructor $\Sigma$	14	3.86/4.00
SU 21	Emory University	Thought Experiments in Bioethics	Bioethics 505: Graduate Special Topics	Lead Instructor $\Sigma$	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 <sup>^</sup>	68	NA
FA 18	Emory University	Ecology Laboratory	Biology 247LW	Field Assistant	22	NA
SP 18	Emory University	Evolutionary Biology	Biology 241	Teaching Assistant <sup>^</sup>	65	NA
FA 17	Winthrop University	Principles of the Learning Academy	Academy 101	Co-instructor <sup>^</sup>	20	NA
FA 16	Winthrop University	Principles of the Learning Academy	Academy 101	Co-Instructor <sup>^</sup>	18	NA

### Certifications

Problem Based Learning. Center for the Integration of Research, Teaching, and Learning	2018
--	------

### Undergraduate Lab Mentees

Student	Year(s) Mentored	Current Position
Matt Appel	2023- current	Yale University. Senior. Ecology & Evolutionary Bio.
Emma Kane	2023- current	Richmond Univ. 3 <sup>rd</sup> year Biochemistry & Molecular Bio.
Claire Turner	Summer 2023	Univ. of Connecticut. Senior. Natural Resources.
Elizabeth Chong	2021-22	University of Texas- Houston. Dental Student
Maggie Weber	2021-22	Yale University. PhD Student. Evolution & Ecology
Vanessa Rodriguez	2020-21	Tufts Dental School. Dental Student
Hannan Syllah	2019-21	Harvard Medical School. Medical Student

## SERVICE & LEADERSHIP

---

### The Profession

National Evolution Meeting, BIPOC Networking Hour Organizer	2024
Diversity Committee, Society for the Study of Evolution (SSE).	2023 – 2026
National Evolution Meeting Postdoctoral Fellowship Group Mentor	2023
National Evolution Meeting Undergraduate Diversity Mentor	2022
Peer Reviewer for: <i>The Journal of Applied Microbiology</i> , <i>Evolution</i> , <i>Evolution Letters</i> , <i>Proceedings of the Royal Society B: Biological Sciences</i> , <i>United States Geological Survey</i>	

### The University

SROP Alumni and Career Panel. Notre Dame University. South Bend, IN.	2023
Emory BLUE Initiative ( <u>B</u> lack Men at <u>L</u> aney <u>U</u> nited in <u>E</u> xcellence), <i>Organizing committee</i>	2021 – 22
Provost Distinguished Teaching Award, <i>Selection Committee</i>	2021
Laney Graduate Conference on Racial & Social Disparities, Inequities and Injustice. <i>Executive Board, Organizer, Inaugural Committee member</i>	2020 – 22
Health Prep Summer Research Program, <i>Asst. Research Coordinator</i>	2019 – 21
PBEE Graduate Program Ethics Seminar, <i>Coordinator</i>	2019 – 22
Emory EDGE ( <u>D</u> iversifying <u>G</u> raduate <u>E</u> ducation), <i>Ambassador (18-20, 21-22), Fellow (20-21)</i>	2018 – 22
Emory Biology Graduate Programs, <i>Ad Hoc Tour Guide</i>	2018 – 21
Emory Laney Graduate School Student Council, <i>Social Programming Chair (18-19), Vice President (19-20)</i>	2018 – 20
Emory STEM Symposium, <i>Networking Organizer</i>	2018
Winthrop Eagle STEM Summer Bridge Mentor	2017
Winthrop University Student Conduct Judicial Council, <i>Member</i>	2016 – 17
Winthrop Athletic Director Hiring Committee, <i>Student Body Representative</i>	2016
Winthrop Student Allocations Committee, <i>Member</i>	2015 – 16
Winthrop Campus Ambassadors [Campus Tours & Visits]	2014 – 17
<i>New Member Education Chair (14-15), Recruitment Chair (15-16), President (16-17)</i>	

### The Community

Environmental Science Career Panel. Belmont University. Nashville, TN.	2023
Ronald E. McNair Day Speaker. Florence County School District III. Lake City, SC.	2023
College & Career Guest Speaker. Ridge Road Middle School. Charlotte, NC.	2021
STEM Professionals in the Classroom: Atlanta Science Festival. College Park, GA.	2020
Selecting a Laboratory in Graduate School: IMSD Panel. Emory University. Atlanta, GA	2020
Career Day Speaker: Liberty Middle School. Covington, GA.	2019
Summer Undergraduate Research Experience Career Panel. Emory University. Atlanta, GA	2018
Academic Success Center Tutor. Winthrop University. Rock Hill, SC.	2015 – 17
First Year Peer Mentor. Winthrop University. Rock Hill, SC.	2015 – 17

### Professional Memberships & Associations

International Society for Evolution, Medicine, and Public Health	2023–
The American Society of Naturalists	2022–
Society for the Study of Evolution	2021–