

Joshua Fowler

Curriculum vitae

Department of BioSciences
Rice University
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(he/him/his)

Education

Ph.D. Student in Ecology and Evolutionary Biology – Rice University , Houston, TX	2018–present
BS in Ecology and Evolutionary Biology and BA in French – University of Arizona , Tucson, AZ	2013–2017
National Student Exchange Program – Université de Montréal , Montréal, Québec, Canada	2015–2015

Research Experience

Graduate Research Assistant – Miller Lab, Rice University	2018–present
Mt. Rainier and North Cascades Field Research Intern and Crew Leader – HilleRisLambers Lab, University of Washington	2017–2018
Undergraduate Research Assistant – Evans Dendroecology Lab, Laboratory of Tree-Ring Research, University of Arizona	2016–2017
Undergraduate Field and Lab Assistant – Dlugosch lab, University of Arizona, with Dr. David Hembry	2016–2017
Undergraduate Field Research Assistant (Volunteer) – Enquist Lab, University of Arizona	2016–2016

Publications

2020

Liu, J, Zhang, R, Xu, X, **Fowler, JC**, Miller, TEX, Dong, T (2020). Effect of summer warming on growth, photosynthesis and water status in female and male *Populus cathayana*: implications for sex-specific drought and heat tolerances. *Tree Physiology*, <https://doi.org/10.1093/treephys/tpaa069>.

2018

Evans MEK, Gugger PF, Lynch AM, Guiterman CH, **Fowler JC**, Klesse S, Riordin EC (2018) Dendroecology meets genomics in the common garden: new insights into climate adaptation. *New Phytologist*, 218(2):401–403, doi:10.1111/nph.15094.

Presentations and Posters

2020

Fowler JC, Ziegler S, Whitney KD, Rudgers JA, Miller TEX (2020 August) Demographic buffering by context-dependent host-microbe interactions in stochastic environments. Poster session presented at Ecological Society of America 2020 Annual Meeting

2019

Fowler JC, Whitney KD, Rudgers JA, Miller TEX (2019, August) Vertically transmitted symbionts buffer host demographic variability. Poster session presented at the Annual BioSciences Retreat, Rice University, Houston, TX.

Fowler JC, Whitney KD, Rudgers JA, Miller TEX (2019, January) Vertically transmitted symbionts buffer host demographic variability. Poster session presented at the Sixth Annual Evolutionary Demography Society Meeting, University of Miami, Coral Gables, FL.

Academic Awards, Grants and Scholarships

NSF GRFP Honorable Mention	2020
Texas EcoLabs Funding Opportunity	2019
– "Environmental drivers of grass-endophyte symbiosis across the longitudinal precipitation gradient of Texas" (recommended for funding: \$6,479)	
East-DeMarco Graduate Student Academic Scholarship	2018
– Conferred by the Dean of Natural Sciences Office, Rice University (\$2000)	
First Year Graduate Student Scholarship	2018
– Conferred by the Dean of Graduate Studies Office, Rice University (\$2000)	
4 x Dean's List and 2 x Dean's List with Distinction	2013-2017
– University of Arizona	
National Merit Finalist Scholarship	2013
– University of Arizona (\$120,000)	

Mentoring and Teaching Experience

Graduate TA Rice University	
Courses taught:	
– EBIO412: Advanced Communication in Biological Science	2019
– EBIO325: Ecology	2018
Mentor for Undergraduate Research	
– Ella Segal, EBIO 306/Miller Lab REU, Spring Semester/Summer	2020
– Bella Gutierrez, EBIO 306, /Spring Semester	2020
– Lani Dufresne, EBIO 306/Miller Lab REU, Fall Semester/Summer	2019/2020
– Kyle Dickens, Miller Lab Summer REU student	2019
Undergraduate Preceptor University of Arizona	2017
– Conservation Biology, taught by Dr. Margaret Evans	
Tutor for intro biology, physics and French	2015
– University of Arizona Salt Center	

Community Involvement and Leadership

Rice EEB GSA	08/2019–present
– President for the departmental GSA for 2020-2021	
– Served as treasurer for the departmental GSA.	
Rice EEB Owls Outreach Program	01/2019–05/2019
– Visited middle and high schools around the Houston area providing lecture materials and activities.	
Houston Science Olympiad Exam writer	12/2018
– Wrote exam questions for the herpetology exam for Houston's Science Olympiad competition.	
Greening the Game	08/2016–05/2017
– With Students for Sustainability, sorted recycling and compostable materials from trash at the U of A football and basketball games with the goal of having zero-waste events, and sustainable, environmentally friendly sports.	