

# Joshua C. Fowler

## *Curriculum vitae*

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

## Education

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

## Research Experience

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

## Publications

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### 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

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### 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 Virtual 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**


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2020	NSF Graduate Research Fellowship	Honorable Mention
2019	Texas Ecolab Program Grant	(\$6147)
2019	Student Travel Award	EvoDemo Society Meeting (\$150)
2018	East-DeMarco Graduate Student Academic Scholarship	Rice, Dean of Natural Sciences (\$2000)
2018	First Year Graduate Student Scholarship	Rice, Dean of Graduate Studies (\$2000)
2013–2017	4 x Dean's List and 2 x Dean's List with Distinction	University of Arizona
2013	National Merit Finalist Scholarship	University of Arizona (\$120,000)

**Mentoring and Teaching Experience****Courses taught**


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2020	Coordinator	BioSciences Professional Development Series (Rice University)
2019	Teaching Assistant	Advanced Communication in Biological Science (Rice University)
2018	Teaching Assistant	Ecology (Rice University)
2017	Undergraduate Preceptor	Conservation Biology (University of Arizona)

**Undergraduate research mentorship**

2020–present	Ella Segal	EBIO 306/Miller Lab REU
2020	Bella Gutierrez	EBIO 306
2019–present	Lani Dufresne	EBIO 306/Miller Lab REU
2019	Kyle Dickens	Miller Lab REU

**Other teaching experience**

2015	Tutor	Strategic Alternative Learning Techniques Center, University of Arizona
2014–2015	French Counselor	Les Voyageurs, Concordia Language Villages, Bemidji, Minnesota

**Community Involvement and Service****Positions held**


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2020–present	President	EEB Graduate Student Association
2019–2020	Treasurer	EEB Graduate Student Association
2019–present	President	Rice University Cycling and Triathlon

**Scientific journal reviews**

2020	<i>Proceedings B</i>
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**Science outreach**

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| 2019–present | Rice EEB Owls Outreach Program   |
|              | - Engaging underserved Houston area middle and high school students in hands-on science learning |
| 12/2018      | Houston Science Olympiad Exam writer   |
|              | - Writing questions for the herpetology exam Houston’s Science Olympiad competition              |