

# Michelle Packer

*Curriculum Vitae*

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**Department of Biology | University of Texas at Arlington**

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## PROFESSIONAL POSITIONS

- Dissertation Fellow** May 2020 - present  
University of Texas at Arlington, Office of Graduate Studies
- Graduate Teaching Assistant** August 2018 - April 2020  
University of Texas at Arlington, Department of Biology
- Graduate Research Assistant** January 2018 - July 2018  
University of Texas at Arlington, Department of Biology  
Project: *National Science Foundation: CAREER: Does behavioral plasticity promote or constrain adaptation? A test using resurrection.*
- Graduate Teaching Assistant** August 2017 - December 2018  
University of Texas at Arlington, Department of Biology
- Graduate Research Assistant** October 2015 - July 2017  
University of Texas at Arlington, Department of Biology  
Project: *National Science Foundation: Testing the influence of long-term ecological change on evolutionary responses in zooplankton.*
- Mentoring Research Assistant** February - June 2015  
University of Texas at Arlington, College of Science  
*Achieving Success through Undergraduate Research and Engagement (ASSURE) Program*  
Research Supervisor: Dr. Ashley Purgason
- Laboratory Manager** February - June 2015  
Department of Biology, University of Texas at Arlington  
Supervisor: Dr. Matthew Walsh
- Laboratory Manager** September - November 2014  
University of Texas at Arlington, Department of Biology  
Supervisor: Dr. Laura Gough
- Undergraduate Research Assistant** June - September 2014  
University of Texas at Arlington, Department of Biology  
Supervisor: Dr. Matthew R. Walsh

## EDUCATION

### Doctor of Philosophy (Ph.D.) in Quantitative Biology

expected July 2020

Dissertation title: *The evolution of life histories and phenotypic plasticity across environmental gradients in Daphnia*

University of Texas at Arlington

Advisor: Dr. Matthew R. Walsh

### Bachelor's Degree (B.S.) in Biology with honors

December 2014

University of Texas at Arlington

## PUBLICATIONS

### Peer Reviewed Articles (+undergraduate research)

- (8) **Packer, M.** and M.R Walsh. 2020. Predator elimination effects on plasticity and life-history adaptation in Alaskan *Daphnia* populations (*in prep*)
- (7) **Packer, M.** and M.R Walsh. 2020. Evolutionary insights from endemic predation: Linking *Daphnia* evolution to stickleback phenotypes in Alaskan lake ecosystems (*in prep*)
- (6) **Packer, M.** and M.R. Walsh. 2020. Connecting phenotypic plasticity and the rate of adaptation: *Daphnia*-fish experimental evolution (*in prep*)
- (5) **Packer, M.** and M.R. Walsh. 2020. The influence of long-term lake productivity on life history evolution in *Daphnia*: Comparing natural vs. experimental systems. (*in prep*)
- (4) Walsh, M.R. and **M. Packer**. 2019. Testing the relationship between within-generation and transgenerational phenotypic plasticity in *Daphnia* across species, traits, and systems. (*in revision*)
- (3) Walsh, M.R., **M. Packer**, S. Beston, C. Funkhouser, M. Gillis, J. Holmes and J. Goos. 2018. *Daphnia* as a model for eco-evolutionary dynamics. In G. A. Wellborn & M. Thiel (Eds.), *Natural History of the Crustacea*, Vol. 5: Life Histories. Oxford University Press.
- (2) Packer, M. and M.R. Walsh. 2017. Predator-induced plasticity does not alter the pathway from evolution to ecology among locally adapted populations of *Daphnia*. *Evolutionary Ecology* 31(4): 477-487.
- (1) +Walsh, M.R., T. Castoe, J. Holmes, **M. Packer**, K. Biles, M. Walsh, S.B. Munch, and D.M. Post. 2016. Local adaptation in transgenerational responses to predators. *Proceedings of the Royal Society B*. 283: 20152271.

## PRESENTATIONS

### **Contributed Talks** (+poster presentation)

- 2020 **Biology Graduate Student Recruitment Weekend**, University of Texas at Arlington, Arlington, Tx; *Investigating the Role of Phenotypic Plasticity: Wisconsin, Connecticut, Alaska and Trinidad*
- 2020 **The American Society of Naturalists**, Asilomar, California  
*Evolutionary Insights from Endemic Predation: Linking Daphnia Evolution to Stickleback Phenotypes in Alaskan Lake Ecosystems*
- 2018 **Second Joint Congress on Evolutionary Biology**, Montpellier, France  
*Testing the connection between phenotypic plasticity and the rate of adaptation using Daphnia-fish experimental evolution*
- 2017 **Evolution**, Portland, Oregon, USA+  
*The influence of lake productivity on life history evolution in Daphnia: natural vs experimental tests*

## GRANTS AND AWARDS

- 2020 Dissertation Fellowship; Graduate Studies, University of Texas at Arlington **\$7000**  
Chad Watkins Memorial Award for Outstanding Mentorship **\$1140**  
Travel Grant; Beta Phi Chapter of the Phi Sigma Biological Honor Society **\$500**
- 2019 Lewis and Clark Fund for Exploration, Field Research Grant; American Philosophical Society **\$4900**  
IEngage Mentor Scholarship; Office of Graduate Studies, University of Texas at Arlington **\$2000**  
Research Grant, Beta Phi Chapter of the Phi Sigma Biological Honor Society **\$500**
- 2018 IEngage Mentor Scholarship; Office of Graduate Studies, University of Texas at Arlington **\$2000**  
Travel Grant; Office of Graduate Studies, University of Texas at Arlington **\$750**  
Student Travel Award; Biology Department, University of Texas at Arlington **\$125**

## PROFESSIONAL ACTIVITIES

**Reviewer:** Hydrobiologica (1)

**Society Memberships:** American Association of University Women (AAUW), The American Society of Naturalists (ASN), Society for the Study of Evolution (SSE), Beta Phi chapter of the Phi Sigma Biological Society, Graduate Student Senate (GSS) at the University of Texas at Arlington

## TEACHING EXPERIENCE

### Graduate Teaching Assistant

University of Texas at Arlington, Arlington, Tx

Spring 2019, 2020 - Evolution and Ecology Laboratory for majors (Biol 1442)

Fall 2018, 2019 - General Ecology Laboratory (Biol 3457)

Fall 2017 - Cell and Molecular Biology Laboratory for majors (Biol 1441)

## UNDERGRADUATE SUPERVISION AND MENTORING

- 2020 Sarah Muh; Undergraduate, University of Texas at Arlington  
Arnold “Josh” Joseph, Undergraduate, University of Texas at Arlington
- 2019 Leilani Lilly; Undergraduate, Tarrant County Community College  
*\*NSF Louis Stokes Alliance for Minority Participation (LSAMP) - 2019 Summer Research Academy (SRA)*
- 2019 Olivia Williams; Honors College Undergraduate, University of Texas at Arlington  
*\*Engage Mentorship Program - Summer 2019*
- 2019 Jeniffer Lara; Undergraduate, University of Texas at Arlington
- 2018 Graciela Mireles Barron; Undergraduate, University of Texas at Arlington  
*\*Engage Mentorship Program - Summer 2018*
- 2018 Virginia Appelgate; Undergraduate, Tarrant County Community College  
*\*NSF Louis Stokes Alliance for Minority Participation (LSAMP) - 2018 Summer Research Academy (SRA)*
- 2018 Jennifer Lara; Undergraduate, University of Texas at Arlington  
Marissa Lopez; Undergraduate, University of Texas at Arlington
- 2017 Olivia Goodrich; Undergraduate, University of Texas at Arlington  
Amanda Ng; Undergraduate, University of Texas at Arlington  
Jennifer Nguyen; Undergraduate, University of Texas at Arlington  
Cameron Swain; Undergraduate, University of Texas at Arlington
- 2016 Kaitlyn Howell; Undergraduate, University of Texas at Arlington  
Jocelyn Ramosesquina; Undergraduate, University of Texas at Arlington
- 2015 Jennifer Nguyen; Honors College Undergraduate, University of Texas at Arlington  
Mina Wilson; Honors College Undergraduate, University of Texas at Arlington  
Krissy Carranza; Honors College Undergraduate, University of Texas at Arlington  
Ishrat Durdana; Honors College Undergraduate, University of Texas at Arlington  
Jorge Garcia; Undergraduate, University of Texas at Arlington  
Ria Rahman; Undergraduate, University of Texas at Arlington

## *SERVICE AND OUTREACH*

Walsh Lab Website - Content and design (2015-present)

Graduate student Volunteer, UTA Department of Biology Booth, *EarthX*, Dallas Tx (2019)

Graduate student Volunteer, UTA Department of Biology Booth, *Earth Day Texas*, Dallas, Tx (2017, 2018)

Graduate student Volunteer, *UTA Big Event - Day of Volunteering* (2018, 2019)

Graduate student Volunteer, UTA Department of Biology Booth, *Ecofest*, Arlington, TX (2016, 2017)