

Michelle Packer

Curriculum Vitae

Department of Biology, University of Texas at Arlington
Arlington, TX 76019 USA

Email: michelle.packer@uta.edu

Website: <http://michellepacker.weebly.com>

EDUCATION

expected 2020 Ph.D. in Quantitative Biology
University of Texas at Arlington
Advisor: Dr. Matthew R. Walsh

2009-2014 B.S. in Biology *with honors*
University of Texas at Arlington

ACADEMIC APPOINTMENTS

2018 - current Graduate teaching assistant, Department of Biology, University of Texas at Arlington

2018 (Spring) Graduate research assistant, National Science Foundation: CAREER: Does behavioral plasticity promote or constrain adaptation? A test using resurrection.
PI: Dr. Matthew R. Walsh

2017 Graduate teaching assistant, Department of Biology, University of Texas at Arlington

2014-2016 Graduate research assistant, National Science Foundation: Testing the influence of long-term ecological change on evolutionary responses in zooplankton.
PI: Dr. Matthew R. Walsh

2015 Mentoring research assistant, ASSURE Program
College of Science, University of Texas at Arlington
Supervisor: Dr. Ashley Purgason

Laboratory Manager, Department of Biology, University of Texas at Arlington
Supervisor: Dr. Matthew Walsh

2014 Laboratory Manager, Department of Biology, University of Texas at Arlington
Supervisor: Dr. Laura Gough

Undergraduate research assistant, Department of Biology, University of Texas at Arlington
Supervisor: Dr. Matthew R. Walsh

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
- 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

AWARDS

2020 Travel Grant; Beta Phi Chapter of the Phi Sigma Biological Honor Society **\$500**

2019 Lewis and Clark Fund for Exploration and 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

2020 Teaching assistant, Evolution and Ecology Laboratory (for majors)

2019 Teaching assistant, Evolution and Ecology Laboratory (for majors)
Teaching assistant, Ecology Laboratory

2018 Teaching assistant, Ecology Laboratory

2017 Teaching assistant, Cell and Molecular Biology Laboratory (for majors)

UNDERGRADUATE SUPERVISION AND MENTORING

2020 Sarah Muh; Undergraduate, University of Texas at Arlington
Arnold "Josh" Joseph, Undergraduate, University of Texas at Arlington

2019 Olivia Williams; Honors College Undergraduate, University of Texas at Arlington
**IEngage Mentorship Program - Summer 2019*

Jeniffer Lara; Undergraduate, University of Texas at Arlington

- 2018 Graciela Mireles Barron; Undergraduate, University of Texas at Arlington
*Engage Mentorship Program - Summer 2018
- Virginia Appelgate; Undergraduate, Tarrant County Community College
*NSF Louis Stokes Alliance for Minority Participation (LSAMP) - 2018 Summer Research Academy (SRA)
- 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

- 2015-present Walsh Lab Website: Content and design
- 2019 EarthX, Dallas Tx
- 2018 Earth Day Texas, Dallas, TX
 UTA Big Event - Day of Volunteering
- 2017 Earth Day Texas, Dallas, TX
 Ecofest, Arlington, TX
- 2016 Ecofest, Arlington, TX