

Analisa A. Milkey  
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## Education

PhD student, Ecology & Evolutionary Biology  
University of Connecticut  
Advisor: Dr. Paul Lewis

expected graduation 2026 / 2027

Bachelor of Science, Biological Sciences  
University of California, Davis  
University Honors Program  
GPA 3.88  
Honors thesis advisor: Dr. Peter Wainwright

June 2020

## Publications

Yu-Bo Wang, **Analisa Milkey**, Aolan Li, Ming Hui Chen, Lynn Kuo, and Paul O. Lewis. 2023.  
LoRaD: marginal likelihood estimation with haste (but no waste). *Systematic Biology* (in press).

Hodge, Jennifer R., Yutong Song, Molly A. Wightman, **Analisa Milkey**, Binh Tran, Anya Štajner, Alexis S. Roberts, Christopher R. Hemingson, Peter C. Wainwright, and Samantha A. Price.  
"Constraints on the ecomorphological convergence of zooplanktivorous butterflyfishes."  
*Integrative Organismal Biology* (2021).

## Conference Presentations

 \*denotes equal contribution

**Milkey, A.**, Lewis, P. The sequential multispecies coalescent. Oral presentation at UConn Ecology and Evolutionary Biology Graduate Student Symposium, Storrs, CT. February 2023.

Wang, Y., **Milkey, A.**, Li, A., Chen, M., Kuo, L., Lewis, P. LoRaD: marginal likelihood from a single posterior sample. Poster presentation at Evolution 2022 meeting (Annual joint meeting of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists.) Cleveland, OH. June 2022.

Wang, Y., **Milkey, A.**, Li, A., Chen, M., Kuo, L., Lewis, P. LoRaD method for marginal likelihood estimation. Oral presentation delivered on zoom at UConn Ecology and Evolutionary Biology Graduate Student Symposium, Storrs, CT. February 2022.

**Milkey, A.**, Hodge, J., Wainwright, P.C. Coral feeding shapes behavior in butterflyfishes (Chaetodontidae). Oral presentation delivered through video at UC Davis Undergraduate Research Conference, Davis, CA. April 2020.

Deshmukh\*, R., **Milkey\*, A.** The effects of early home environment on young Mexican American mothers' ethnic identity. Oral presentation delivered through video at Western Regional Psychology Association Conference, San Francisco, CA. October 2020.

Leung\*, T., **Milkey\*, A.**, Rusit\*, X. Elongation in Eupercaria. Oral presentation delivered at UC Davis Undergraduate Research Conference, Davis, CA. April 2018.

## Research Experience

*Undergraduate Researcher; Department of Evolution & Ecology, UC Davis*

Wainwright Lab

March 2017 - June 2020

- Collected and analyzed behavioral data in R programming language to assess influence of coral feeding on butterflyfish behavior. Completed honors thesis.
- Filmed cichlids eating for project on jaw protrusion.
- Pinned out and measured butterflyfish specimens for project on butterflyfish morphology.
- Analyzed teleost morphological data in R to assess body shapes across habitats.

Schoener Lab

July 2019 - Feb. 2020

- Analyzed genetics of *Daphnia pulicaria* populations using molecular techniques (DNA extraction, PCR, gel electrophoresis).

*Research Assistant; Department of Human Ecology, UC Davis*

Hibel Lab

Aug. 2018 - June 2020

- Coded actigraph data, transcribed interviews for project on self-regulation in chronically stressed Mexican American children.
- Analyzed survey data in R for independent project on effects of early home environment on ethnic identity.

*Field Assistant; Institute of Science and Technology, Austria*

Summer 2019

Barton Lab

- Used Trimble GPS to tag, sample, and measure morphological traits in *Antirrhinum* hybrid zone in Planoles, Spain.

## Teaching Experience

College Essay Writing Tutor; The Princeton Review

June 2020 - July 2021

- Tutored undergraduate and graduate students in essay writing through online classroom. Sessions were both synchronous and asynchronous.

Teaching Assistant; Greentech Education and Employment

March 2018 - Feb. 2019

- Assisted with summer workforce development classes and led at-risk youth in urban agriculture projects.

## Other Experience

Lab Assistant; UC Davis Herbarium

April 2018 - June 2021

- File, image, barcode, and georeference plant specimens.

Driver; Yolo Food Bank

March 2020 - June 2020

- Delivered food to low-income families and at-risk individuals as part of COVID-19 relief program.

**Awards**

NSF Graduate Research Fellowship (\$147,000)	2023 - present
EEB Summer Fellowship (\$3500)	May 2022
The Ecology and Evolutionary Biology Graduate Student Research Endowment Fund for Research to the Department of Ecology and Evolutionary Biology (\$1245)	April 2022
Department Citation, UC Davis College of Biological Sciences	June 2020
Law Family Award, UC Davis Herbarium (\$250)	April 2020
Goldwater Scholarship (\$7500)	April 2019
UC Davis Regents' Scholarship (\$30,000)	Sept. 2016 - June 2020

**Academic Organizations**

Phi Beta Kappa Honor Society	April 2019 - present
UC Davis Regents' Scholars Society	Sept. 2016 - June 2020

**Skills**

Basic knowledge of R, Python, and C++ programming languages.  
Basic experience with RevBayes software.  
Experience with Access and Symbiota databases.