Analisa A. Milkey
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(650) 575-5579

Education

PhD student, Ecology & Evolutionary Biology — expected graduation 2026 / 2027
University of Connecticut
GPA 4.0
Advisor: Dr. Paul Lewis

Bachelor of Science, Biological Sciences — June 2020
University of California, Davis
University Honors Program
GPA 3.88
Honors thesis advisor: Dr. Peter Wainwright

Publications

Milkey, A., Chen, M. H., Wang, Y. B., Li, A., & Lewis, P. (2025). The sequential multispecies coalescent. *bioRxiv*, 2025-01.

Wang, Y. B., **Milkey, A**., Li, A., Chen, M. H., Kuo, L., & Lewis, P. O. (2023). LoRaD: Marginal likelihood estimation with haste (but no waste). *Systematic Biology*, *72*(3), 639-648.

Hodge, J. R., Song, Y., Wightman, M. A., **Milkey, A.**, Tran, B., Stajner, A., Roberts, A. S., Hemingson, C. R., Wainwright, P. C., & Price, S. A. (2021). Constraints on the ecomorphological convergence of zooplanktivorous butterflyfishes. *Integrative Organismal Biology, 3*(1), obab014.

Software

Milkey A., Korte E., Lewis P.O. (2023). *lorad: Lowest Radial Distance Method of Marginal Likelihood Estimation*. R package version 0.0.1.0, https://CRAN.R-project.org/package=lorad.

Conference Presentations *denotes equal contribution

Milkey, A., Lewis, P. How much information is there about the species tree even if gene trees are known without error? Oral speed talk at UConn Ecology and Evolutionary Biology Graduate Student Symposium, Storrs, CT. March 2025.

Milkey, A., Lewis, P. Testing the sequential multispecies coalescent. Oral presentation at Evolution 2025 meeting (Annual joint meeting of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists.) Montreal, Canada. July 2024.

Milkey, A., Lewis, P. Testing the sequential multispecies coalescent. Oral speed talk at UConn Ecology and Evolutionary Biology Graduate Student Symposium, Storrs, CT. February 2024.

Milkey, A., Lewis, P. The sequential multispecies coalescent. Oral presentation at Evolution 2023 meeting (Annual joint meeting of the American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists.) Albuquerque, NM. June 2023.

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. B., **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. B., **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.

Awards

The EEB Graduate Student Fund to the Department of Ecology and Evolutionary Biology and Connecticut State Museum of Natural History ($494)	April 2025
Schaefer Fund and the CBC Endowment to the Department of Ecology and Evolutionary Biology and Connecticut State Museum of Natural History ($1215)	April 2024
EEB Headship Award ($500)	May 2023
The Bamford Fund to the Department of Ecology and Evolutionary Biology and Connecticut State Museum of Natural History ($520)	May 2023
NSF Graduate Research Fellowship ($147,000)	2023 - present
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

Teaching Experience

Teaching Assistant; Workshop on Molecular Evolution May 2023
May 2024

Graduate Teaching Assistant; University of Connecticut
- Lab Instructor, EEB5249, Phylogenetics Jan 2024 - May 2024
- Teaching Assistant, EEB2245, Evolutionary Biology Jan 2023 - May 2023
- Lab Instructor, BIOL1108, Principles of Biology II Aug 2021 - Dec 2022

College Essay Writing Tutor; The Princeton Review June 2020 - July 2021

Teaching Assistant; Greentech Education and Employment March 2018 - Feb 2019

Service

Letters to a Pre-Scientist, STEM professional 2023 - present

UConn EEB Graduate Student Outreach Committee 2022 - present

Other Experience

Curatorial Assistant; UC Davis Herbarium April 2018 - June 2021

Driver; Yolo Food Bank March 2020 - 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.

Last updated 4/21/2025.