

Analisa A. Milkey  
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## Education

PhD student, Ecology & Evolutionary Biology  
University of Connecticut  
GPA 4.0  
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

**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 2025.

**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**

|   |                        |
|---|------------------------|
| 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

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|--|-----------------------|
| Teaching Assistant; Workshop on Molecular Evolution    | May 2023<br>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 |

## Other Experience

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|--|------------------------|
| 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 3/3/2025.*