

Stanford



Maike Morrison

Ph.D. Student in Biology, admitted Autumn 2020

Bio

BIO

I am a PhD candidate in Ecology and Evolutionary Biology at Stanford University working with Noah Rosenberg. I build mathematical tools to answer biological questions, currently with a focus on population genetics, biodiversity, microbiomes, and cancer.

HONORS AND AWARDS

- NSF Graduate Research Fellowship, National Science Foundation (2021-2025)
- Stanford Graduate Fellowship, Stanford University (2020-2023)
- Barry M Goldwater Scholarship, Barry Goldwater Scholarship and Excellence in Education Foundation (2019)

EDUCATION AND CERTIFICATIONS

- BS, The University of Texas at Austin , Mathematics Honors (2020)

LINKS

- Personal Website: <http://MaikeMorrison.com/>

Publications

PUBLICATIONS

- **Mathematical bounds on Shannon entropy given the abundance of the i th most abundant taxon.** *Journal of mathematical biology*
Morrison, M. L., Rosenberg, N. A.
2023; 87 (5): 76
- **Prolonged delays in human microbiota transmission after a controlled antibiotic perturbation.** *bioRxiv : the preprint server for biology*
Xue, K. S., Walton, S. J., Goldman, D. A., Morrison, M. L., Verster, A. J., Parrott, A. B., Yu, F. B., Neff, N. F., Rosenberg, N. A., Ross, B. D., Petrov, D. A., Huang, K. C., Good, et al
2023
- **FSTruct: an FST -based tool for measuring ancestry variation in inference of population structure.** *Molecular ecology resources*
Morrison, M. L., Alcalá, N., Rosenberg, N. A.
2022
- **Projecting COVID-19 isolation bed requirements for people experiencing homelessness.** *PloS one*
Ingle, T. A., Morrison, M. n., Wang, X. n., Mercer, T. n., Karman, V. n., Fox, S. n., Meyers, L. A.
2021; 16 (5): e0251153
- **The landscape of host genetic factors involved in immune response to common viral infections.** *Genome medicine*
Kachuri, L., Francis, S. S., Morrison, M. L., Wendt, G. A., Bosse, Y., Cavazos, T. B., Rashkin, S. R., Ziv, E., Witte, J. S.

2020; 12 (1): 93

- **Conscientious vaccination exemptions in kindergarten to eighth-grade children across Texas schools from 2012 to 2018: A regression analysis.** *PLoS medicine*

Morrison, M. n., Castro, L. A., Ancel Meyers, L. n.

2020; 17 (3): e1003049