

# Maike L Morrison

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## Education .....

- 2020– **Stanford University** **Stanford, CA**  
*PhD in Biology (Ecology & Evolution)*
- 2016–2020 **The University of Texas at Austin** **Austin, TX**  
*BS in Mathematics, Dean's Scholars Honors Program*

## Research Experience .....

- Sep 2020– **Graduate Research Assistant** **Stanford, CA**  
Present *Supervised by Dr. Noah Rosenberg in the Stanford University Department of Biology.*
- Jun 2022– **Complex Systems Summer School Student** **Santa Fe, NM**  
July 2022 *Participant in the Santa Fe Institute Complex Systems Summer School.*
- Aug 2017– **Mathematical Epidemiology Undergraduate Research Assistant** **Austin, TX**  
May 2021 *Supervised by Dr. Lauren Ancel Meyers in the UT Austin Department of Integrative Biology.*
- Dec 2017– **Evolutionary Genetics Undergraduate Research Assistant** **Austin, TX**  
Aug 2020 *Supervised by Dr. Mark Kirkpatrick in the UT Austin Department of Integrative Biology.*
- Aug 2019– **Senior Honors Mathematics Thesis** **Austin, TX**  
May 2020 *Supervised by Dr. Stephen Walker in the UT Austin Departments of Mathematics.*
- May 2019– **UC San Francisco Amgen Scholars Program** **San Francisco, CA**  
Jul 2019 *Supervised by Dr. John Witte in the UCSF Department of Biostatistics & Epidemiology. Participant in UCSF's Summer Research Training Program.*
- Jun 2018– **The Mathematical Biosciences Institute NSF REU** **State College, PA**  
Aug 2018 *Supervised by Dr. Ephraim Hanks in the Penn State University Department of Statistics. Participant in the MBI Research Experience for Undergraduates program at Ohio State University.*

## Peer-Reviewed Publications .....

- Morrison ML**, Alcalá N, Rosenberg NA (2022). FSTRUCT: an  $F_{ST}$ -based tool for measuring ancestry variation in inference of population structure. *Molecular Ecology Resources*, 22, 2614– 2626.
- Ingle T, **Morrison ML**, Wang X, Mercer T, Karman V, Fox S, Meyers LA (2021). Projecting COVID-19 isolation bed requirements for people experiencing homelessness. *PLOS One*, 16(5), e0251153.
- Kachuri L\*, Francis SS\*, **Morrison ML**, Wendt GA, Bossé Y, Cavazos TB, Rashkin SR, Ziv E, Witte JS (2020). The landscape of host genetic factors involved in immune response to common viral infections. *Genome Medicine* 12(93): 1-18.
- Morrison M\***, Castro LA\*, Meyers LA (2020). Conscientious vaccination exemptions in kindergarten to eighth-grade children across Texas schools from 2012 to 2018: A regression analysis. *PLOS Medicine* 17(3): e1003049.

\*These authors contributed equally

## Honors, Awards, & Fellowships .....

2022	Stanford Biology Department Excellence in Teaching Award
2021–2025	NSF Graduate Research Fellowship Program
2020–2025	Stanford Graduate Fellowship
2020	University Co-op Mitchell Award for Outstanding Undergraduate Research
2020	Dean's Honored Graduate: University of Texas College of Natural Sciences
2020	UT Austin Mathematics Special Departmental Honors
2020	NSF Graduate Research Fellowship Program, Honorable Mention
2019–2020	Alan Kaylor Cline Dean's Scholars Scholarship
2019–2020	Phi Beta Kappa, junior year election
2019	Undergraduate Diversity at Evolution Award
2019	Barry M. Goldwater Scholarship
2018–2020	University of Texas University Honors: College Scholar
2017	Freshman Research Initiative Summer Research Fellowship
2016–2020	University of Texas College of Natural Sciences Scholarship
2016–2020	Dean's Scholars Honors Program

## Teaching .....

Winter 2022	<b>BIO 187: Mathematical Population Biology</b> <i>Graduate Teaching Assistant</i>	<b>Stanford University</b> <i>Dr. Noah Rosenberg</i>
Winter 2021	<b>BIO 85: Evolution</b> <i>Graduate Teaching Assistant</i>	<b>Stanford University</b> <i>Drs. Dmitri Petrov &amp; Molly Schumer</i>

## Leadership .....

2021–2022	Vice President, InterVarsity Grad. Christian Fellowship	Stanford University
2018–2019	Elected Chair, Dean's Scholars Honors Program Council	UT Austin
2016–2020	Elected Member, Dean's Scholars Honors Program Council	UT Austin
2017–2018	Chair, Dean's Scholars Distinguished Lecture Series Committee	UT Austin
2016–2020	Member, Dean's Scholars Distinguished Lecture Series Committee	UT Austin

## University & Departmental Service .....

2021–2022	Co-Organizer, Eco-Evo Lunch	Stanford University
2021	Co-Organizer, Biology Pre-Orientation Program (BioPOP)	Stanford University
2017–2020	Student Ambassador, College of Natural Sciences Admissions	UT Austin
2017–2020	Student Recruiter, College of Natural Sciences Honors Center	UT Austin
2018–2019	Selection Committee Member, Jean Holloway Award	UT Austin

## Conference Presentations .....

### Oral Presentations

- Aug 2019    **UCSF Summer Research Training Program Symposium**    San Francisco, CA  
 “Genome-Wide Association Study of Immune Response to Twelve Common Pathogens.”  
*SRTP Award for Outstanding Oral Presentations*
- Apr 2019    **Undergraduate Research Forum at UT Austin**    Austin, TX  
 “How Many Species Make Up the World’s Most Abundant Photosynthetic Organism?”  
*FSTI Award for Excellence in Oral Presentation*
- Nov 2018    **Capital of Texas Undergraduate Research Conference**    Austin, TX  
 “Analyzing Conscientious Vaccination Exemption Rates in Texas.”  
*Award of Excellence for an Outstanding Oral Presentation of Research*
- Aug 2018    **Mathematical Biosciences Institute Capstone Conference**    Columbus, OH  
 “Distinguishing Resource Selection from Heavy-Tailed Dispersal in Spatial Epidemic Models.”  
[\*Link to recording.\*](#) (co-presented with Emily Strong)

### Poster Presentations

- June 2022    **Population, Evolutionary, & Quantitative Genetics Conference**    Pacific Grove, CA  
 “FSTruct: An  $F_{ST}$ -based tool for quantifying ancestry variability.”  
*Genetics Society of America Poster Award*
- Jun 2019    **Evolution Meeting**    Providence, RI  
 “How Many Ecotypes are Comprised by the World’s Most Abundant Photosynthetic Organism?”  
*Undergraduate Diversity at Evolution Award Program*
- Apr 2019    **Longhorn Research Poster Session**    Austin, TX  
 “Modeling Conscientious Vaccination Rates in Texas Metropolitan Areas.”
- Aug 2018    **Mathematical Biosciences Institute Capstone Conference**    Columbus, OH  
 “Distinguishing Resource Selection from Heavy-Tailed Dispersal in Spatial Epidemic Models.”
- Apr 2018    **Undergraduate Research Forum at the University of Texas at Austin**    Austin, TX  
 “Conscientious Vaccination Exemption Rates in Texas: A Longitudinal Analysis of Trends and Predictors.”