

Evan Gorstein
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[LinkedIn](#) | [Website](#) | [GitHub](#)

Education

University of Wisconsin-Madison

PhD in Statistics

Expected December 2026

MS in Statistics

May 2023

University of Chicago

BS in Mathematics, BA in Statistics

June 2019

Phi Beta Kappa

Work and Research Experience

Wisconsin Institute for Discovery at UW-Madison

2023-Present

Research Assistant in Solis-Lemus Lab

- Designed and executed independent research projects in bioinformatics and machine learning, leading to first author publications in *PLOS Computational Biology* and the *Bulletin of Mathematical Biology*.
- Developed Julia package [HighDimMixedModels.jl](#), implementing a method for efficiently selecting impactful variables in presence of clustered samples, benchmarked on gene expression, GWAS, and microbiome data.
- Engineered [pipeline](#) for performing ancestral sequence reconstruction (ASR) with a variational autoencoder and benchmarked this approach against state-of-the-art ASR programs.
- Formulated a novel, simulation-based approach to phylogenetic network reconstruction, using a transformer to predict inter-taxa information. Implemented and benchmarked the approach, achieving greater reconstruction accuracy on simulated phylogenomic data than existing methods.

UW-Madison Statistical Consulting Group

2022-2023

Statistical Consultant

- Advised faculty, staff, and graduate students in the life sciences on the design and analysis of their experiments.
- Assisted with statistical modelling and computing for projects leading to journal publication and Masters and PhD theses.

John Deere

June-August 2022

Data Science Intern

- Developed automated pipelines to monitor and validate inventory taking and rout factory and warehouse data to company database

UW-Madison Department of Statistics

2020-2022

Teaching Assistant

- Led discussion sections, graded homework, and hosted office hours for introductory courses (*Introduction to Applied Statistics for Life Sciences* and *Introduction to Probability (3x)*) in my department

Side Projects and Proficiencies

- [Personal blog](#) on statistics
- **Programming languages:** Python, R, Julia, SQL
- **Skills:** Git, Quarto, LaTeX