Jeremy Goldwasser

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Interpretability · Statistics · NLP

EDUCATION

UC Berkeley, Berkeley, CA — Aug 2021 - May 2026 (Expected)
Ph.D. in Statistics; Advised by Ryan Tibshirani and Giles Hooker — GPA: 3.97
Yale University, New Haven, CT — Aug 2017 - May 2021
B.S. in Statistics and Data Science — GPA: 3.73

INTERNSHIP EXPERIENCE

Apple — May - Aug 2024
Research Intern, Vision Products Group — Sunnyvale, CA
- Developed novel generative AI method for counterfactual image explanations.
- Tool is currently used to provide previously unattainable insights on failure modes of FaceID.

Genentech — May - July 2023
Data and Statistical Sciences Intern — South San Francisco, CA
- Produced confidence intervals for AI pathology models using conformal prediction.
- Calibrated cell-type classifier, quantifying uncertainty and improving test accuracy by 3%.

Voca.ai (acquired by Snapchat) — June - Aug 2019
Machine Learning Intern — Herzliya, Israel
- Trained Transformers for Automatic Speech Recognition and Named Entity Recognition.

PUBLICATIONS

Stabilizing Estimates of Shapley Values with Control Variates
Published in XAI (first author) — 2024

Ascle: A Python Natural Language Processing Toolkit for Medical Text Generation
Published in Journal of American Medical Informatics Association — 2024

Forest Fire Clustering for Single-Cell Sequencing Combines Iterative Label Propagation with Parallelized Monte Carlo Simulations
Published in Nature Communications (second author) — 2022

Neural NLP for Unstructured Data in Electronic Health Records: A Review
Published in Computer Science Review (third author) — 2022

SUBMISSIONS

Statistical Significance of Feature Importance Rankings
In Review, UAI (first author) — 2025

Gaussian Rank Verification
In Review, Stat (first author) — 2025

Challenges in Real-Time Estimation of Changing Epidemic Severity Rates
In Review, PLOS Computational Biology (first author) — 2024

ONGOING PROJECTS

- Unifying image counterfactuals and feature attributions with latent adversarial attacks.
- Statistical ML algorithms to better track mortality risk in epidemics like COVID-19.
- Attention-based interpretability of Vision Transformers for AI cancer pathology.
- Online learning for ensembling time series forecasters with uncertainty quantification.

Misc Projects	**AI Meets DNA Methylation**	May 2024
	• Used interpretable ML to identify methylation sites that regulate CD55 gene expression.	
	Predicting Peptide-MHC Binding Affinity in SARS-CoV-2	April 2020
	• Designed neural architecture to predict which viral peptides bind with immune cells.	
Skills	**Coursework**: Deep Learning, Optimization, Causal Inference, AI in Biology	
	Programming: Python, R, LaTeX	
	Languages: Spanish (fluent), Hebrew (basic)	
Awards	**U.S. Civic Digital Fellowship** (Declined)	2021
	Yale College Dean's Research Fellowship, Morse Richter Fellowship	2020
	Yale Creative and Performing Arts Grant	2020