

Jeremy Goldwasser

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EDUCATION	UC Berkeley , Berkeley, CA	Aug 2021 - May 2026 (Expected)
	<i>Ph.D. in Statistics; Advised by Ryan Tibshirani and Giles Hooker</i>	GPA: 3.97
	Yale University , New Haven, CT	Aug 2017 - May 2021
	<i>B.S. in Statistics and Data Science</i>	GPA: 3.73
INTERNSHIP EXPERIENCE	Apple	May - Aug 2024
	<i>Research Intern, Vision Products Group</i>	Sunnyvale, CA
	<ul style="list-style-type: none">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
	<i>Data and Statistical Sciences Intern</i>	South San Francisco, CA
	<ul style="list-style-type: none">Produced confidence intervals for AI pathology models using conformal prediction.Calibrated cell-type classifier, quantifying uncertainty and improving test accuracy by 3%.	
PUBLICATIONS	Voca.ai (acquired by Snapchat)	June - Aug 2019
	<i>Machine Learning Intern</i>	Herzliya, Israel
	<ul style="list-style-type: none">Trained Transformers for Automatic Speech Recognition and Named Entity Recognition.	
	Stabilizing Estimates of Shapley Values with Control Variates	
	<i>Published in XAI (first author)</i>	2024
	Ascle: A Python Natural Language Processing Toolkit for Medical Text Generation	
SUBMISSIONS	<i>Published in Journal of American Medical Informatics Association</i>	2024
	Forest Fire Clustering for Single-Cell Sequencing Combines Iterative Label Propagation with Parallelized Monte Carlo Simulations	
	<i>Published in Nature Communications (second author)</i>	2022
	Neural NLP for Unstructured Data in Electronic Health Records: A Review	
	<i>Published in Computer Science Review (third author)</i>	2022
	Unifying Image Counterfactuals and Feature Attributions with Latent-Space Adversarial Attacks	
ONGOING PROJECTS	<i>Submitting to NeurIPS (first author)</i>	2025
	Statistical Significance of Feature Importance Rankings	
	<i>In Review, UAI (first author)</i>	2025
	Gaussian Rank Verification	
	<i>In Review, Stat (first author)</i>	2025
	Challenges in Real-Time Estimation of Changing Epidemic Severity Rates	
	<i>In Review, PLOS Computational Biology (first author)</i>	2024
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none"> • Used interpretable ML to identify methylation sites that regulate CD55 gene expression. 	
	Predicting Peptide-MHC Binding Affinity in SARS-CoV-2	April 2020
	<ul style="list-style-type: none"> • 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, L ^A T _E X	
	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
INVITED TALKS	<ul style="list-style-type: none"> • "Estimating Epidemic Severity Rates." UCSF MINDSCAPE, February 2025. 	
	<ul style="list-style-type: none"> • "Estimating Epidemic Severity Rates." Delphi Group, January 2025. 	
	<ul style="list-style-type: none"> • "Estimation of Time-Varying Severity Rates from Aggregate Data: Pitfalls and New Ideas." California Department of Public Health, September 2024. 	
	<ul style="list-style-type: none"> • "Estimation of Time-Varying Severity Rates from Aggregate Data: Pitfalls and New Ideas." Centers for Disease Control and Prevention (CDC), September 2024. 	
	<ul style="list-style-type: none"> • "Stabilizing Estimates of Shapley Values with Control Variates." 2nd World Conference on Explainable AI, Malta, July 2024. 	
	<ul style="list-style-type: none"> • "Provably Stable Feature Rankings with SHAP and LIME." Apple Data Analytics and Quality Group, June 2024. 	
	<ul style="list-style-type: none"> • "Stable Feature Rankings & Time Series Deconvolution." Genentech gRED Computational Sciences, February 2024. 	
	<ul style="list-style-type: none"> • "Provably Stable Feature Rankings with SHAP and LIME." Center for Human-Compatible AI, January 2024. 	
	<ul style="list-style-type: none"> • "Provably Stable Feature Rankings with SHAP and LIME." Berkeley Statistics Student Seminar, January 2024. 	
	<ul style="list-style-type: none"> • "Estimating Case Fatality Rate via Convolutional Modeling." Delphi Group, April 2023. 	