Adam Stein

PhD Student — Machine Learning — Programming Languages steinad@seas.upenn.edu — https://www.seas.upenn.edu/~steinad/

Education

University of Pennsylvania	$2021 - \mathrm{present}$
PhD Computer and Information Science	GPA: 4.0/4.0
Advisors: Prof. Mayur Naik and Prof. Eric Wong	
University of California, Los Angeles	December 2020
BS Computer Science, summa cum laude	GPA: 4.0/4.0

Research Statement

I aim to improve the safety and trustworthiness of ML models by (1) discovering the concepts learned by a model, (2) designing abstractions to streamline debugging and programming of models, and (3) developing methods to understand changes in data and their impact.

PhD Student, UPenn 2021 – present Advisors: Prof. Mayur Naik and Prof. Eric Wong Working in the intersection of ML and programming languages. Undergraduate Researcher, UCLA March – June 2020 Advisor: Prof. Todd Millstein Implemented synthesis of bit-vector programs for a state-of-the-art program synthesis tool. Summer Intern, UC Berkeley June – September 2018 Advisor: Prof. John Kuriyan Designed and evaluated molecular dynamics simulations of a cancer-relevant protein. Awards 2023 – 2025 UCLA Outstanding Bachelor's in CS 2021 (Awarded to 2/341) IJCNLP-AACL'23 Area Chair Award (Interpretability and Analysis of Models for NLP) Publications Towards Compositionality in Concept Learning Adam Stein, Aaditya Naik, Yinjun Wu, Mayur Naik, Eric Wong. In submission. TorchQL: A Programming Framework for Integrity Constraints in Machine Learning [code] Adam Stein, Yinjun Wu, Eric Wong, Mayur Naik. OOPSLA 2024. Rectifying Group Irregularities in Explanations for Distribution Shift [code] Adam Stein, Yinjun Wu, Eric Wong, Mayur Naik, Rajeev Alur. VLDB 2024. Faithful Chain-of-Thought Reasoning [code] Qing Lyu*, Shreya Havaldat*, Adam Stein*, Li Zhang, Delip Rao, Eric Wong, Marianna Apidianaki, Chris Callison-Burch. IJCNLP-AACL 2023 (Area Chair Award). Learning to Select Pivotal Samples for Meta Re-weighting [code] Yinjun Wu, Adam Stein, Mayur Naik, AAI 202	Research Experience		
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Teaching Experience	Teaching Experience		
TA for CIS 547, Program Analysis (University of Pennsylvania, Fall 2023)			
TA for CIS 500, Software Foundations (University of Pennsylvania, Fall 2022)			
Tutor, Tau Beta Pi (University of California, Los Angeles, 2019)	Tutor, Tau Beta Pi (University of California, Los Angeles, 2019)		

Skills

Languages/Libraries: Python, Pytorch, C/C++, Java, Spark, Scala, Rust, OCaml, LLVM, Datalog Tools: Git, GDB, AWS, Docker, Coq, Z3, Souffle