

STEVEN AN

PERSONAL INFORMATION

email stlan@ucsd.edu
website stevenan5.github.io

RESEARCH INTERESTS

Machine learning theory, weak supervision, ensemble methods, crowdsourcing.

EDUCATION

<i>Doctor of Philosophy</i>	<i>2019-Present</i>	The University of California, San Diego
	Computer Science	· Advisor: Sanjoy DASGUPTA
<i>Master of Science</i>	<i>2019-2021</i>	The University of California, San Diego
	Computer Science	
<i>Bachelor of Arts and Science</i>	<i>2015-2019</i>	The University of California, Davis
	Math & Scientific Computation with HONORS	
	Philosophy with HIGHEST HONORS	· Advisor: Hanti LIN
	Minor in Computer Science	

PUBLICATIONS

<i>NeurIPS</i>	<i>Sept 2025</i>	Statistical Analysis of an Adversarial Bayesian Weak Supervision Method
	Author:	Steven AN
<i>IEEE TPAMI</i>	<i>August 2025</i>	Reliable Programmatic Weak Supervision with Confidence Intervals for Label Probabilities
	Authors:	Verónica ÁLVAREZ, Santiago MAZUELAS, Steven AN, Sanjoy DASGUPTA
<i>UAI</i>	<i>July 2024</i>	Convergence Behavior of an Adversarial Weak Supervision Method
	Authors:	Steven AN, Sanjoy DASGUPTA

WORK EXPERIENCE

<i>Instagram, NYC</i>	<i>Jun-Sep 2025</i>	Software Engineer Intern
	Improving User Interest Modeling for Stories Ranking	
	<ul style="list-style-type: none">• Drove statistically significant offline metric wins for an industry scale neural network via the following:<ul style="list-style-type: none">– Created new user history features and investigated their impact– Designed, debugged, and implemented target-aware and position-aware pooling for user history features– Conducted experiments exploring embedding table configurations and model quantization settings to improve model understanding• Condensed experimental results and communicated them to my peers and higher level stakeholders	

<i>Instagram, Menlo Park</i>	<i>Jun-Sep 2024</i> Software Engineer Intern Stories Differential Sourcing <ul style="list-style-type: none"> • Enumerated well known and esoteric use cases of the Stories product • Designed, debugged, and implemented differential sourcing for Stories to reduce query construction time • Revamped Stories query construction unit tests to decrease code fragility
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TEACHING

<i>The University of California, San Diego</i>	<i>2020-Present</i> Teaching Assistant Probability and Statistics · Prof. Sanjoy DASGUPTA · Fall 2020 Machine Learning: Learning Algorithms · Prof. Sanjoy DASGUPTA · Winter 2023, Fall 2023, Spring 2025, Fall 2025
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SKILLS

<i>Programming</i>	Python, PyTorch, NumPy, CVXPY, MATLAB, C++, SQL
<i>Other</i>	L ^A T _E X, Technical Writing

OTHER INFORMATION

<i>Talks & Posters</i>	Spotlight presentation at UAI 2024 Poster presentation at UAI 2024
<i>Interests</i>	DIY Perfumemaking · Film Photography (35mm, 4x5)

September 19, 2025