

STEVEN AN

PERSONAL INFORMATION

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

RESEARCH INTERESTS

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

EDUCATION

Doctor of Philosophy
Master of Science
Bachelor of Arts and Science

2019-2026 The University of California, San Diego
Computer Science · Advisor: Sanjoy DASGUPTA

2019-2021 The University of California, San Diego
Computer Science

2015-2019 The University of California, Davis
Math & Scientific Computation with HONORS
Philosophy with HIGHEST HONORS · Advisor: Hanti LIN
Minor in Computer Science

PUBLICATIONS

UAI
NeurIPS
IEEE TPAMI
UAI

June 2026 When and How Often is Weighted Majority Vote Optimal Under Log Loss?
Author: Steven AN, Sanjoy DASGUPTA

Sept 2025 Statistical Analysis of an Adversarial Bayesian Weak Supervision Method
Author: Steven AN

August 2025 Reliable Programmatic Weak Supervision with Confidence Intervals for Label Probabilities
Authors: Verónica ÁLVAREZ, Santiago MAZUELAS, Steven AN, Sanjoy DASGUPTA

July 2024 Convergence Behavior of an Adversarial Weak Supervision Method
Authors: Steven AN, Sanjoy DASGUPTA

WORK EXPERIENCE

Instagram, NYC

Jun-Sep 2025 Software Engineer Intern
Improving User Interest Modeling for Stories Ranking

- Drove statistically significant offline metric wins for an industry scale neural network via the following:
 - 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

Jun-Sep 2024 Software Engineer Intern

*Instagram, Menlo
Park*

Stories Differential Sourcing

- 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

TEACHING

2020-2026 Teaching Assistant

*The University of
California, San
Diego*

- Probability and Statistics · Prof. Sanjoy DASGUPTA · Fall 2020
- Machine Learning: Learning Algorithms · Prof. Sanjoy DASGUPTA · Winter 2023, Fall 2023, Spring 2025, Fall 2025
- Machine Learning: Learning Algorithms · Prof. Yoav FREUND · Spring 2026

SKILLS

Programming

Python, PyTorch, NumPy, CVXPY, MATLAB, C++, SQL

Other

L^AT_EX, Technical Writing

OTHER INFORMATION

Talks & Posters

Poster presentation at NeurIPS 2025
Spotlight presentation at UAI 2024
Poster presentation at UAI 2024

Interests

DIY Perfumemaking · Film Photography (35mm, 4x5)

June 1, 2026