Amanda Wang

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Education

Cornell University 2025—Present.
Ph.D., Computer Science (4.16/4.00).
Minors: Applied Math
Advisor: Michael P. Kim

Princeton University 2021—2025
B.S.E., Electrical & Computer Engineering (3.94/4.00).
Minors: Computer Science, Applied Math (PACM)
Mentors: Chi Jin (ECE), Matt Weinberg (CS, PACM)

Awards

NSF Graduate Research Fellowship (GRFP)	2026—Present.
Hopcroft/Hartmanis Fellowship	2025—2026
Sigma Xi Book Award (4 awarded in ECE)	2025
Sigma Xi, Phi Beta Kappa Inductee	2025
Tau Beta Pi Inductee	2024
Shapiro Prize (top 3% of class)	2023
Manfred Pyka Memorial Physics Prize	2022

Publications

Fidelity-Diversity Metrics for Text [arXiv]
Amanda Wang, Tudor Manole, Florentina Bunea, John Thickstun.
In submission to NeurIPS 2026.

Principled Out-of-Distribution Generalization via Simplicity [arXiv]
Jiawei Ge, Amanda Wang, Shange Tang, Chi Jin.

Maximizing Truth Learning in a Social Network is NP-hard [arXiv]
Filip Úradník*, Amanda Wang*, Jie Gao.
AAMAS 2025.

* denotes equal contribution.

Research Experiences

yam-llm (CS 6741) 2025
Mentor: Yoav Artzi
Developed a pipeline for LLM pre-training. Focused on data preparation + model evaluation, implemented with PyTorch.

Senior Thesis 2025
Mentor: Chi Jin
Studied compositional OoD generalization in diffusion models for structured generative tasks.

DIMACS REU 2024
Mentor: Jie Gao

Established hardness for network truth-learning. [website]
Attended 29th Midsummer Combinatorial Workshop.

Princeton ML Theory Summer School 2024

Only undergraduate admit.

Junior/PACM Independent Work 2024
Mentor: Matt Weinberg

Constructed novel interpolations between subadditive and fractionally subadditive functions to bound communication complexity in combinatorial auctions.

Teaching & Service

Cornell University

TA, CS 4814: Introduction to Computational Complexity	Fall 2026
Volunteer, CS Department Fellowship Czar	Fall 2026
Volunteer, CS Student-Applicants Support Program	Fall 2025

Princeton University

Course Developer, COS 333: Great Ideas in Theoretical CS	Summer 2025
Course Assistant and Grader, COS 435: Reinforcement Learning	Spring 2025
Grader, COS 445: Economics and Computation	Spring 2024, 25
Course Assistant, MAT 202: Linear Algebra	Spring 2024
Course Assistant, MAT 204: Advanced Linear Algebra	Spring 2023, 24
Course Assistant, MAT 203: Advanced Multivariable Calculus	Fall 2022, 23, 24

Languages

English (native), Chinese (fluent).