

Andy Yilin Tang

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EDUCATION

Stanford University

September 2022 – June 2026

B.S. in Computer Science, GPA 3.9

Stanford, CA

- **Coursework:** MATH61CM, CS107 (Systems), Probability Theory (A+), Machine Learning (A+), Machine Learning Theory, Computer Vision, Robot Perception, Natural Language Processing, Reinforcement Learning
- **Involvement:** TreeHacks Organizer, Robotics Club President, Stanford Debate Society, Stanford Birdwatching Club

WORK EXPERIENCE

Genesis Therapeutics

June 2024 – Present

Machine Learning Engineering Intern

- Building templating module to improve diffusion model performance on apo-holo and holo-holo cross-docking.
- Analyzed data quality of the largest publicly accessible docking molecular dynamics simulation dataset ([MISATO](#)).
- Created autoscaling serving architecture for in-house ML models.

Quilter

February 2024 – June 2024

Machine Learning Intern

- Benchmarked image-based architectures for generalization in circuit board placement with reinforcement learning.
- Designed routing-informed placement pipeline, outperforming existing heuristic-based placement on routability.

Replit

June 2023 – September 2023

Software Engineering Intern – Platform

- Designed/Built [Replit Deployments](#) analytics and LLM-based Deployments debugger with 80% accuracy. See [blog](#).

Cloudflare

June 2022 – August 2022

Software Engineering Intern – [Magic](#)

Champaign, IL

- Reduced latency on customer-facing API handling millions of requests by 96% using Go.

RESEARCH EXPERIENCE

Stanford AI Lab (Intelligence through Robotic Interaction at Scale)

October 2023 – Present

Student Researcher, PI: Chelsea Finn

- Architected and implemented robot policy adaptation module using VLM reasoning capabilities, preprint: <https://arxiv.org/abs/2407.02666>, pending submission to IEEE Conference on Robotics and Automation (ICRA).

Fermilab

April 2020 – June 2022

Student Researcher

Batavia, IL

- Generated and processed two million particle collisions (C++/Python), quantifying signal from theorized particles.
- Presented dark photon search results at the American Physical Society (April Meeting: Quarks to Cosmos).

University of Illinois Chung Lab

July 2019 – December 2021

Student Researcher

Champaign, IL

- Automated analysis of brain scarring from epilepsy, saving one week per dataset. Published in [PNAS 118\(51\)](#).

SELECTED PROJECT

Junior High Math Contest

January 2020 – August 2022

Contest Chair and Tech Lead

Aurora, IL

- Developed contest web platform from scratch using Express, Bootstrap, and EJS templates on Google Cloud.
- Coordinated eight-person team to run day-long in-person (2020, 2022) and virtual (2021, 2022) contests, involving a total of more than 700 students from across four states as well as dozens of volunteers.

SELECTED TECHNICAL SKILLS & HONORS

- **Awards:** USA Computing Olympiad Gold, Top 150 at USA Physics Olympiad and US National Chemistry Olympiad
- **Skills:** C++, Docker, GCP, Go, Kubernetes, Python (NumPy, Pandas, PyTorch, etc.), JavaScript, React/TypeScript