

Andy Yilin Tang

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SELECTED TECHNICAL SKILLS AND INTERESTS

- **Development:** C, C++, Docker, GCP, Kubernetes, Linux, Python, PyTorch, Shell, Slurm, Ray
- **ML:** NumPy, Seaborn, Pandas, Generative Modeling, Generalization, Reinforcement Learning, Representations

EDUCATION

B.S. in Computer Science, Stanford University (GPA 4.0) September 2022 – December 2025

M.S. in Computer Science, Stanford University (GPA 4.0) March 2025 – December 2025

Artificial Intelligence Specialization

- **Coursework:** Algorithms (A+), Probability Theory (A+), Machine Learning (A+), Operating Systems, Machine Learning Theory, Computer Vision, Natural Language Processing, Reinforcement Learning, Deep Generative Models

PEER-REVIEWED PUBLICATIONS

- **VLM-PC (ICRA 2025):** Architected and implemented robot policy adaptation module using VLM reasoning capabilities, preprint: <https://arxiv.org/abs/2407.02666>
- **Past-Token Prediction (ICLR 2025 WRL, RSS 2025 RoboReps Spotlight):** Linked benefits of observation history to action correlation to enhance long-context policies, preprint: <https://www.arxiv.org/pdf/2505.09561>. In submission to the 2025 Conference on Robot Learning [CoRL].
- **Epilepsy Pathology (PNAS 118(51)).** Automated analysis of severity of epileptic brain scarring.

WORK EXPERIENCE

Databricks June 2025 – September 2025
Incoming DBSQL AI Intern

Genesis Therapeutics June 2024 – September 2024
Machine Learning Intern

- Built 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

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

Cloudflare June 2022 – August 2022
Software Engineering Intern – [Magic](#)

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

RESEARCH AFFILIATIONS

Stanford AI Lab (Intelligence through Robotic Interaction at Scale) October 2023 – Present

- Co-led two projects (see publications). Currently lead on image prompting and reasoning cache projects.

Fermilab April 2020 – June 2022

- 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

- Designed seizure severity protocol (see publications) with automated analysis, saving months of time.