

# Andy Yilin Tang

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## SELECTED TECHNICAL SKILLS AND INTERESTS

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

## EDUCATION

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**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

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- **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.pdf>. 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

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**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

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**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.