

# Tianyu Chen

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 Google Scholar

 TianyuCoding

## EDUCATION

University of Texas at Austin	Ph.D. in Statistics (GPA: 4.0), Austin, TX	Oct. 2023 – July 2028 (expected)
University of Chicago	M.S. in Statistics (GPA: 3.97), Chicago, IL	Oct. 2021 – July 2023
Fudan University	B.S. in Statistics (GPA: 3.7), Shanghai, China	Sept. 2017 – July 2021

## INDUSTRY EXPERIENCE

### Microsoft Research | Gen AI Posttrain

*Research Scientist Intern (Mentors: Zhendong Wang, Lijuan Wang)*

Remote & Austin, TX

Feb. 2025 – Present

- Developed an object-centric vision-language model (VLM) agent that automates fine-grained, multi-turn image-editing evaluation, eliminating reliance on human annotators for benchmark construction. The project received media coverage in well-known Chinese outlets and is showcased on the project website.
- Led large language model (LLM) post-training research on mathematical reasoning and LLM-as-a-judge alignment, including recipe design for **autoregressive** and **diffusion-based** language models.

## MORE INFORMATION

LinkedIn: <https://www.linkedin.com/in/tianyu-chen-1a056a160/>

Website: <https://tianyucodings.github.io/>

Research Interests: LLM post-training (both AR and DLLM), reinforcement learning, image editing, and diffusion distillation

## SELECTED PUBLICATION HIGHLIGHTS

- Five Neurips publications (2023–2025) across statistics, reinforcement learning, and generative modeling, including a **Spotlight** paper in 2025; only one is **not** first-authored.
- Reinforcement learning & generative depth showcased by Neurips 2024 diffusion trust-region policies and a Neurips 2025 acceptance on LLM reasoning post-training, complemented by the 2025 EdiVal-Agent framework.
- Four-paper ICLR 2026 pipeline advancing diffusion distillation, causal generative inference, and neural posterior calibration, alongside AISTATS and PNAS publications secured early in the Ph.D.

## REINFORCEMENT LEARNING

- [Neurips 2024] **Tianyu Chen**, Zhendong Wang, Mingyuan Zhou. “Diffusion Policies creating a Trust Region for Offline Reinforcement Learning.” Published in: *Neurips 2024*. [\[arXiv\]](#). 2024.
- [Neurips 2025] Yifan Sun, Jingyan Shen, Yibin Wang, **Tianyu Chen**, Zhendong Wang, Mingyuan Zhou, Huan Zhang. “Improving Data Efficiency for LLM Reinforcement Fine-tuning Through Difficulty-targeted Online Data Selection and Rollout Replay.” Accepted to: *Neurips 2025*. [\[arXiv\]](#). 2025.

## IMAGE EDITING & DIFFUSION DISTILLATION

- [ICLR 2026 Submission] **Tianyu Chen**\*, Yasi Zhang\*, ... Zhendong Wang, Kevin Lin, Xiaofei Wang, Zhengyuan Yang, Linjie Li, Chung-Ching Lin, Jianwen Xie, Oscar Leong, Lijuan Wang, Ying Nian Wu, Mingyuan Zhou. “EdiVal-Agent: An Object-Centric Framework for Automated, Scalable, Fine-Grained Evaluation of Multi-Turn Editing.” Preprint. [\[arXiv\]](#). 2025.
- [ICLR 2026 Submission] **Tianyu Chen**\*, Yasi Zhang\*, Zhendong Wang, Ying Nian Wu, Oscar Leong, Mingyuan Zhou. “Denoising Score Distillation: From Noisy Diffusion Pretraining to One-Step High-Quality Generation.” Preprint [\[arXiv\]](#). 2025.
- [ICLR 2026 Submission] **Tianyu Chen**\*, Yasi Zhang\*, Zhendong Wang, Ying Nian Wu, Mingyuan Zhou, Oscar Leong. “Restoration Score Distillation: From Corrupted Diffusion Pretraining to One-Step High-Quality Generation.” Preprint [\[arXiv\]](#). 2025.
- [ICLR 2026 Submission] **Tianyu Chen**\*, Xinran Song\*, Mingyuan Zhou. “A Generative Framework for Causal Estimation via Importance-Weighted Diffusion Distillation.” Preprint [\[arXiv\]](#). 2025.

## STATISTICS

- [Neurips 2025 Spotlight] **Tianyu Chen**, Vansh Bansal, James G. Scott. “CoLT: The conditional localization test for assessing the accuracy of neural posterior estimates.” **Spotlight at:** *Neurips 2025*. [\[arXiv\]](#). 2025.
- [ICLR 2026 Submission] **Vansh Bansal**, Tianyu Chen, James G. Scott. “The surprising strength of weak classifiers for validating neural posterior estimates.” Submitted to: *ICLR 2026*. [\[arXiv\]](#). 2025.
- [AISTATS 2025] **Tianyu Chen**, James G. Scott. “Conditional diffusions for neural posterior estimation.” [\[arXiv\]](#). 2025.
- [Neurips 2024] **Tianyu Chen**, Kevin Bello, Francesco Locatello, Bryon Aragam, Pradeep Ravikumar. “Identifying General Mechanism Shifts in Linear Causal Representations.” Published in: *Neurips 2024*. [\[arXiv\]](#). 2024.
- [Neurips 2023] **Tianyu Chen**, Kevin Bello, Bryon Aragam, Pradeep Ravikumar. “iSCAN: Identifying Causal Mechanism Shifts among Nonlinear Additive Noise Models.” Published in: *Neurips 2023*. [\[arXiv\]](#). 2023.