

WENYI MO

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EDUCATION

Rutgers University

Ph.D. in Computer Science

- Advisor: Prof. Dimitris N. Metaxas

New Brunswick, NJ

Sep. 2025 – Jun. 2030 (Expected)

Renmin University of China

M.S. in Artificial Intelligence

GPA: 3.86 / 4.0

Beijing, China

Sep. 2022 – Jun. 2025

South China University of Technology

B.E. in Computer Science

GPA: 3.92 / 4.0; China National Scholarship (Top **1%**).

Canton, China

Sep. 2018 – Jun. 2022

RESEARCH INTERESTS

My research focuses on multimodal generative models, preference learning, and reinforcement learning for alignment and controllable optimization. I am particularly interested in applying RL-based fine-tuning to large vision-language(-action) models.

PUBLICATIONS

- [1] **Wenyi Mo**, Tianyu Zhang, Yalong Bai, Bing Su, Ji-Rong Wen, Qing Yang, “Dynamic Prompt Optimizing for Text-to-Image Generation,” *CVPR*, 2024. [paper] [code]
- [2] **Wenyi Mo**, Tianyu Zhang, Yalong Bai, Bing Su, Ji-Rong Wen, “Uniform Attention Maps: Boosting Image Fidelity in Reconstruction and Editing,” *WACV*, 2025. [paper] [code]
- [3] **Wenyi Mo**, Tianyu Zhang, Yalong Bai, Ligong Han, Ying Ba, Dimitris N. Metaxas. “PrefGen: Multimodal Preference Learning for Preference-Conditioned Image Generation,” *Under Review*. [paper][project]
- [4] **Wenyi Mo***, Ying Ba*, Tianyu Zhang*, Yalong Bai, Biye Li, “Learning User Preferences for Image Generation Model,” *Under Review*, 2025. (* equal contribution) [paper][code]
- [5] Jiangmeng Li, **Wenyi Mo**, Fei Song, Chuxiong Sun., Wenwen Qiang, Bing Su, and Changwen Zheng, “Supporting Vision-Language Model Inference with Causality-pruning Knowledge Prompt,” *Neural Networks*, 2025. [paper] [code]
- [6] Ying Ba, Tianyu Zhang, Yalong Bai, **Wenyi Mo**, Tao Liang, Bing Su, Ji-Rong Wen, “Enhancing Reward Models for High-quality Image Generation: Beyond Text-Image Alignment,” *ICCV*, 2025. [paper][code]
- [7] Jiangmeng Li*, Wenwen Qiang*, Yanan Zhang, **Wenyi Mo**, Changwen Zheng, Bing Su, and Hui Xiong, “MetaMask: Revisiting Dimensional Confounder for Self-Supervised Learning,” *NeurIPS*, 2022. (* equal contribution) **Spotlight** [paper] [code]

RESEARCH EXPERIENCE

Research Intern

Mar. 2024 – Sep. 2025

In2X, Research Team

Beijing, China

- Mentor: Dr. Tianyu Zhang and Dr. Yalong Bai
- Preference-Conditioned Image Generation with Multimodal Large Language Models
- Outcome: One WACV publication and two papers under submission.

Research Intern

Jan. 2024 – Mar. 2024

ByteDance, Seed

Shanghai, China

- Mentor: Dr. Yongfei Liu and Dr. Quanzeng You
- Controllable Video Generation with Conditional Inputs (e.g., Bounding Boxes)

Research Intern

Sep. 2023 – Jan. 2024

Du Xiaoman Technology

Beijing, China

- Mentor: Dr. Tianyu Zhang and Dr. Yalong Bai
- Prompt Optimization with Reinforcement Learning for Text-to-Image Generation
- Outcome: One CVPR publication.

AWARDS AND HONORS

- ICCV 2025 Travel Support Award
- Top Reviewer at NeurIPS 2024
- China National Encouragement Scholarship
- China National Scholarship

PAPER REVIEWS

- **Conference Reviewer:** NeurIPS (2024, 2025), ICLR (2025, 2026), AISTATS (2025, 2026), CVPR (2025, 2026), WACV 2025, ICML 2025, ICCV 2025, AAAI 2026.
- **Journal Reviewer:** IEEE Transactions on Multimedia, International Journal of Image and Graphics, Scientific Reports.

TECHNICAL SKILLS

- Languages: Python, C / C++, LaTeX