

Zhenggang Tang

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[LinkedIn](#), [Google Scholar](#)
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RESEARCH INTERESTS

I'm working on **multimodal foundation models**, including **unified understanding and generation**, **spatial-temporal understanding and spatial reconstruction**.

I'm also generally interested in **reinforcement learning** and **multi-agent systems**.

EDUCATION

Bachelor of Science, School of EECS, Peking University, China.

GPA: **3.80/4** Rank: **5/91**

09/2017 - 06/2021

Doctor of Philosophy in Computer Science, University of Illinois at Urbana-Champaign, United States.

Advisor by [Prof. Alexander Schwing](#)

08/2021 - present

EMPLOYMENT

Meta Platform Inc.

- **Research Scientist Intern @ XR Tech Core AI** 05/2025 – present
Unified spatial understanding and generation, still in progress.
- **Research Scientist Intern @ XR Tech Core AI** 05/2024 – 01/2025
Single stage efficient scene reconstruction from pose-free RGB only views. Work published in CVPR 2025 as an oral presentation. Github 500+ stars.

Snap Inc.

- **Research Scientist Intern @ Creative Vision Group** 01/2024 – 05/2024
Pixel Aligned multi-view generation for 3D generation. Work published in CVPR 2025 workshop

NVIDIA

- **Research Scientist Intern** 05/2022 – 10/2022
RGB-Only SDF Reconstruction of Tabletop Scenes for Collision-Free Manipulator Control. Work published in ICRA 2022.

Microsoft Research Asia

- **Research Scientist Intern @ Fintech Group** 10/2020 – 05/2021
Learning to negotiate intentions in a diffusion-like way in multi-asset order execution modeled as a multi-agent system. Work published in KDD 2023.

PUBLICATIONS

1. **Zhenggang Tang**, Yuchen Fan, Dilin Wang, Hongyu Xu, Rakesh Ranjan, Alex Schwing, Zhicheng Yan, "[MV-DUST3R+: Single-Stage Scene Reconstruction from Sparse Views In 2 Seconds](#)", **CVPR 2025 (Oral presentation)**, Nashville, USA.
2. **Zhenggang Tang**, Peiye Zhuang, Chaoyang Wang, Aliaksandr Siarohin, Yash Kant, Alex Schwing, Sergey Tulyakov, Hsin-Ying Lee, "[Pixel-Aligned Multi-View Generation with Depth Guided Decoder](#)", **CVPR 2025 workshop**, Nashville, USA.
3. **Zhenggang Tang**, Zhongzheng Ren, Xiaoming Zhao, Bowen Wen, Jonathan Tremblay, Stan Birchfield, Alexander Schwing, "[NeRFDeformer: NeRF Transformation from a Single View via 3D Scene Flows](#)", **CVPR 2024**, Seattle, USA.
4. **Zhenggang Tang***, Yuchen Fang*, Kan Ren, Weiqing Liu, Li Zhao, Jiang Bian, Dongsheng Li, Weinan Zhang, Yong Yu, Tie-Yan Liu, "[Learning Multi-Agent Intention-Aware Communication for Optimal Multi-Order Execution in Finance](#)", **ACM SIGKDD Conference on Knowledge Discovery and Data Mining 2023**, Long Beach, California, United States. (* contribute equally).
5. **Zhenggang Tang**, Balakumar Sundaralingam, Jonathan Tremblay, Bowen Wen, Ye Yuan, Stephen Tyree, Charles Loop, Alexander Schwing, Stan Birchfield. "[RGB-Only Reconstruction of Tabletop Scenes for Collision-Free Manipulator Control](#)", **IEEE International Conference on Robotics and Automation (ICRA) 2023**, London, UK.

6. **Zhenggang Tang***, Chao Yu*, Boyuan Chen, Huazhe Xu, Xiaolong Wang, Fei Fang, Simon Shaolei Du, Yu Wang, Yi Wu, “[Discovering Diverse Multi-Agent Strategic Behavior via Reward Randomization](#)”, [Accepted in International Conference on Learning Representations \(ICLR\)](#), Vienna, Austria (2021) (* contribute equally)

PREPRINTS

1. Haozhen Zheng, Beitong Tian, Mingyuan Wu, **Zhenggang Tang**, Klara Nahrstedt, Alex Schwing, “[Spatio-Temporal LLM: Reasoning about Environments and Actions](#)”, arXiv preprint: 2507.05258.
2. **Zhenggang Tang***, Kai Yan*, Liting Sun, Wei Zhan, Tianhao Wei, Changliu Liu, “[A Microscopic Epidemic Model and Pandemic Prediction of Allegheny County using Multi-Agent Reinforcement Learning](#)”, arXiv preprint:2108.06589. (* contribute equally).

PATENTS

1. Balakumar Sundaralingam, Stanley Birchfield, **Zhenggang Tang**, Jonathan Tremblay, Stephen Tyree, Bowen Wen, Ye Yuan, Charles Loop, “[Techniques for controlling robots within environments modeled based on images.](#)”, U.S. Patent Application No. 18/168,482.

REVIEWER EXPERIENCE

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2024 – present
European Conference on Computer Vision (ECCV)	2024 – present
Neural Information Processing Systems (NeurIPS)	2024 – present
International Conference on Learning Representations (ICLR)	2024 – present
ACM SIGGRAPH Asia	2025 – present
International Conference on 3D Vision (3DV)	2024 – present

AWARDS AND HONORS

- Award of Stars of Tomorrow Internship Program in Microsoft Research Asia. 06/2021
- Top 10% thesis reward when graduating from Peking University. 06/2021
- Award of Turing Class in Peking University (Top10 in AI direction) 10/2019
- Silver Medal in 33rd National Olympiad in Informatics 07/2016
- Gold Medal in 10th Asia-Pacific Informatics Olympiad (China District). 05/2016