

Zhenggang Tang

Research in self-evolving robotic systems, multimodal foundation models, unified generation, 3D reconstruction, reinforcement learning, and multi-agent systems.

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EDUCATION

University of Illinois Urbana-Champaign <i>Ph.D. in Computer Science</i> Advisor: Prof. Alexander Schwing	Aug 2021 - Sep 2026
Peking University <i>B.S. in Computer Science, Summa Cum Laude</i> School of EECS GPA: 3.80/4.00 Rank: 5/91	Sep 2017 - Jun 2021

EXPERIENCE

Luma AI <i>Research Scientist</i> Building self-evolving robotic systems .	Current
Meta <i>Research Scientist Intern, XR Tech Core AI</i> Developed unified spatial understanding and generation with large language models.	May 2025 - Dec 2025
Meta <i>Research Scientist Intern, XR Tech Core AI</i> Built efficient single-stage 3D scene reconstruction from pose-free RGB views; published as a CVPR 2025 Oral with 500+ GitHub stars.	May 2024 - Jan 2025
Snap Inc. <i>Research Scientist Intern, Creative Vision Group</i> Researched pixel-aligned multi-view generation for 3D content creation.	Jan 2024 - May 2024
NVIDIA <i>Research Scientist Intern</i> Developed RGB-only reconstruction of tabletop scenes for collision-free robot manipulation.	May 2022 - Oct 2022
Microsoft Research Asia <i>Research Scientist Intern, Fintech Group</i> Studied intention-aware multi-agent learning for coordinated multi-order execution.	Oct 2020 - May 2021
Tsinghua University <i>Research Intern, IIIS</i> Studied diverse strategic behavior in multi-agent reinforcement learning; mentored by Yi Wu.	Nov 2019 - May 2020

PUBLICATIONS

- 01** Zhenggang Tang*, Yuehao Wang*, Yuchen Fan, Jun-Kun Chen, Yu-Ying Yeh, Kihyuk Sohn, Zhangyang Wang, Qixing Huang, Rakesh Ranjan, Dilin Wang, Zhicheng Yan. **Autoregressive Diffusion Modeling for Compositional Text-to-3D Generation**. Under submission.
- 02** Haozhen Zheng, Beitong Tian, Mingyuan Wu, **Zhenggang Tang**, Klara Nahrstedt, Alex Schwing. **Spatio-Temporal LLM: Reasoning about Environments and Actions**. **ICML 2026**.

03 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**.

04 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**.

05 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**.

06 Yuchen Fang*, **Zhenggang Tang***, 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](#). **KDD 2023**.

07 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](#). **ICRA 2023**.

08 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](#). **ICLR 2021**.

09 Zhenggang Tang*, Kai Yan*, Liting Sun, Wei Zhan, Changliu Liu. [A Microscopic Pandemic Simulator for Pandemic Prediction Using Scalable Million-Agent Reinforcement Learning](#). **arXiv:2108.06589**.

* Equal contribution.

PATENT

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.

ACADEMIC SERVICE

CVPR	2024 - Present	ICLR	2024 - Present
ECCV	2024 - Present	3DV	2024 - Present
NeurIPS	2024 - Present	ACM SIGGRAPH Asia	2025 - Present

HONORS

Gold Medal, Asia-Pacific Informatics Olympiad (China District)	May 2016
Silver Medal, 33rd National Olympiad in Informatics	Jul 2016
Stars of Tomorrow Internship Program Award, Microsoft Research Asia	Jun 2021
Summa Cum Laude, Peking University	Jun 2021