

Yang(Marino) Li

yang.marino.li@gmail.com | [GitHub](#) | [Website](#) | [Google Scholar](#)

EDUCATION

Rutgers, The State University of New Jersey-New Brunswick

Doctor of Philosophy, Computer Science

New Brunswick, NJ, US

Aug 2025 — Present

- Supervisor: Dr. [Chengzhi Mao](#)
- Research Interests: Parallel and Spatial Reasoning for (Multimodal) Large Language Models

Hong Kong University of Science and Technology, Guangzhou

Master of Philosophy, Artificial Intelligence

Guangzhou, CN

Aug 2022 — Oct 2024

- Supervisor: Dr. [Ying-Cong Chen](#), co-supervised by Dr. [Dan Xu](#)
- Thesis: Neural 3D Reconstruction of Reflective Objects

Sun Yat-sen University

Bachelor of Science, Mathematics and Applied Mathematics

Guangzhou, CN

Aug 2018 — Jun 2022

- Thesis: Sim2Real Segmentation for Autonomous Driving

RESEARCH EXPERIENCE

Department of Computer Science, Rutgers University

Graduate Research Assistant

Aug 2025 — Present

New Brunswick, NJ, US

- **Parallel Reasoning for Large Language Models:** Conducting research on parallel and interactive reasoning mechanisms. We are developing frameworks that enable LLMs to perform concurrent reasoning with mutual communication, aiming to enhance both inference efficiency and accuracy.
- Supervisor: Dr. [Chengzhi Mao](#)

LightSpeed Studios, Tencent

Research Intern

Mar 2025 — Present

Shenzhen, CN

- **Large Generative 3D Models:** Developing a universal 3D asset generation framework, *UltraShape 3D 1.0*, designed to seamlessly integrate with downstream game development pipelines. **Technical report with full-stack open-source is released to public to facilitate community collaboration and innovation.**
- Mentor: Dr. [Zeyu Hu](#) and Dr. [Yuhan Wang](#)

Media Computing Group, Microsoft Research Lab - Asia (MSRA)

Research Intern

Jun 2024 — Feb 2025

Beijing, CN

- **Neural 3D Representation from Unposed Videos:** Proposed an online generalizable 3D Gaussian Splatting (3DGS) reconstruction method for monocular videos. The system transforms video streams into 3D Gaussians within seconds. This work was accepted by ICCV 2025.
- Mentor: Dr. [Jinglu Wang](#) and Dr. [Xiao Li](#)

Optical Imaging Research Group, SmartMore

Research Intern

Jun 2022 — May 2024

Shenzhen, CN

- **Neural 3D Reconstruction with Polarization Cues:** Developed a low-cost and accurate multi-view 3D reconstruction pipeline specifically for reflective objects by leveraging physics-based polarization cues. This work was accepted by ICLR 2024.
- Mentor: Dr. [Jiangbo Lu](#) and Dr. [Nianjuan Jiang](#)

BME AI Lab, Sun Yat-sen University

Research Assistant

Mar 2021 — Nov 2021

Guangzhou, CN

- **Medical Image Segmentation:** Enhanced the accuracy of nasopharyngeal carcinoma segmentation in MRI scans to facilitate precise radiotherapy treatments. The findings were published in the journal *Sensors*.
- Supervisor: Dr. Zhifan Gao

PUBLICATIONS

Preprints

[Tech Report '25] Tanghui Jia, Dongyu Yan, Dehao Hao, **Yang Li**, Kaiyi Zhang, Xianyi He, Lanjiong Li, Jinnan Chen, Lutao Jiang, Qishen Yin, Long Quan, Ying-Cong Chen, Li Yuan. UltraShape 1.0: High-Fidelity 3D Shape Generation via Scalable Geometric Refinement. *arXiv:2512.21185*, 2025. [website](#)

[Arxiv '25] Shiu-hong Kao, Xiao Li, Jinglu Wang, **Yang Li**, Chi-Keung Tang, Yu-Wing Tai, Yan Lu. UVRM: A Scalable 3D Reconstruction Model from Unposed Videos. *arXiv:2501.09347*, 2025. [demo](#)

Peer-reviewed

[ICCV '25] **Yang Li**, Jinglu Wang, Lei Chu, Xiao Li, Shiu-hong Kao, Ying-Cong Chen, Yan Lu. StreamGS: Online Generalizable Gaussian Splatting Reconstruction for Unposed Image Streams. *International Conference on Computer Vision (ICCV)*, 2025.

[ICCVW '25 Oral] Shuai Yang, Yuying Ge, **Yang Li**, Yukang Chen, Yixiao Ge, Ying Shan, Yingcong Chen. SEED-Story: Multimodal Long Story Generation with Large Language Model. *Oral, Workshop on Human-Interactive Generation and Editing, International Conference on Computer Vision (ICCV)*, 2025. [code](#)

[ICLR '24] **Yang Li**, Ruizheng Wu, Jiyong Li, Yingcong Chen. GNeRP: Gaussian guided Neural Reconstruction of Reflective Objects with Noisy Polarization Priors. *International Conference on Learning Representations (ICLR)*, 2024. [project page](#)

[AAAI '24] Jiyong Li, Dilshod Azizov, **Yang Li**, Shangsong Liang. Contrastive Continual Learning with Importance Sampling and Prototype-Instance Relation Distillation. *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2024.

[Sensors '24] **Yang Li**, Guanghui Han, Xiujian Liu. DCNet: Densely Connected Deep Convolutional Encoder Decoder Network for Nasopharyngeal Carcinoma Segmentation. *Sensors 2021, 21(23)*, 7877, 2021.

AWARDS

Ph.D. Fellowship, Department of Computer Science, Dartmouth College	2025
Ph.D. Fellowship, Department of Computer Science, Rutgers University–New Brunswick	2025
Star of Tomorrow Award, Microsoft Research Asia, Microsoft	2025
McGill & Mila Quebec Ph.D. Fellowship, McGill University	2024
Postgraduate Scholarship, HKUST, GZ	2024
Sun Yat-sen Excellent Student Scholarship, Sun Yat-sen University	2019

SKILLS

- **Programming Languages:** Python, PyTorch, TensorFlow, MATLAB