

Yang(Marino) Li

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EDUCATION

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| Rutgers, The State University of New Jersey-New Brunswick <i>Doctor of Philosophy, Computer Science</i> | New Brunswick, NJ, US Aug 2025 — Present |
| Hong Kong University of Science and Technology, Guangzhou <i>Master of Philosophy, Artificial Intelligence</i> | Guangzhou, CN Aug 2022 — Oct 2024 |
| Sun Yat-sen University <i>Bachelor of Science, Mathematics and Applied Mathematics</i> | Guangzhou, CN Aug 2018 — Jun 2022 |

RESEARCH EXPERIENCE

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| 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, <i>UltraShape 3D 1.0</i> , 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 <i>Sensors</i> . | |
| • 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, Xiujuan 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