

# Yang(Marino) Li

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

## EDUCATION

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

## RESEARCH EXPERIENCE

<b>Department of Computer Science, Rutgers University</b> Graduate Research Assistant	Aug 2025 — Present New Brunswick, NJ, US
<b>• Parallel Reasoning for Large Language Models:</b> 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.	
<b>• Supervisor:</b> Dr. <a href="#">Chengzhi Mao</a>	
<b>LightSpeed Studios, Tencent</b> Research Intern	Mar 2025 — Present Shenzhen, CN
<b>• Large Generative 3D Models:</b> Developing a universal 3D asset generation framework, <i>UltraShape 3D 1.0</i> , designed to seamlessly integrate with downstream game development pipelines. <b>Technical report with full-stack open-source is released to public to facilitate community collaboration and innovation.</b>	
<b>• Mentor:</b> Dr. <a href="#">Zeyu Hu</a> and Dr. <a href="#">Yuhan Wang</a>	
<b>Media Computing Group, Microsoft Research Lab - Asia (MSRA)</b> Research Intern	Jun 2024 — Feb 2025 Beijing, CN
<b>• Neural 3D Representation from Unposed Videos:</b> 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 <b>ICCV 2025</b> .	
<b>• Mentor:</b> Dr. <a href="#">Jinglu Wang</a> and Dr. <a href="#">Xiao Li</a>	
<b>Optical Imaging Research Group, SmartMore</b> Research Intern	Jun 2022 — May 2024 Shenzhen, CN
<b>• Neural 3D Reconstruction with Polarization Cues:</b> 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 <b>ICLR 2024</b> .	
<b>• Mentor:</b> Dr. <a href="#">Jiangbo Lu</a> and Dr. <a href="#">Nianjuan Jiang</a>	
<b>BME AI Lab, Sun Yat-sen University</b> Research Assistant	Mar 2021 — Nov 2021 Guangzhou, CN
<b>• Medical Image Segmentation:</b> 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> .	
<b>• Supervisor:</b> Dr. Zhifan Gao	

## PUBLICATIONS

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### 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

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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

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