YIQING LIANG

Redwood City, California

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RESEARCH AND WORK EXPERIENCE

Research Scientist, *Luma AI, Palo Alto, CA, USA* *Sep 2025 - Present*
Tech Lead for Manga
Core contributor to Uni-1, Luma's first unified understanding and generation model

Research Scientist Intern, *NVIDIA Research, Santa Clara, CA, USA* *Jun 2024 - Nov 2024*
Advisors: Abhishek Badki, Hang Su, Orazio Gallo
Topics: Generalizable Scene Flow Prediction given Large-Scale Data Curation

AI Research Scientist Intern, *Meta Reality Labs, Redmond, WA, USA* *Jun 2023 - Nov 2023*
Advisors: Numair Khan, Lei Xiao, Douglas Lanman
Topics: Gaussian Deformation Fields for real-time Dynamic Novel View Synthesis

Research Assistant, *Brown University, Providence, RI, USA* *Sep 2021 - Aug 2025*
Advisor: James Tompkin
Topic: 3D Multimodal Generative AI for Dynamic Scenes

Research Assistant, *Columbia University, New York, NY, USA* *Sep 2019-May 2021*
Advisors: Shuran Song, Shih-Fu Chang
Topic: RL-based Embodied Navigation Agent, Vision-Language Commonsense Reasoning

Research Intern, *SenseTime, Shanghai, Shanghai, China* *Aug 2018–Mar 2019*
Advisor: Cheng Li
Topic: AI Education for Computer Vision

Research Assistant, *MIT CSAIL, Cambridge, MA, USA* *Feb 2018-May 2018*
Advisors: Xavier Puig, Bolei Zhou, Antonio Torralba
Topic: VirtualHome Action Space Extension

EDUCATION

Ph.D. in Computer Science, *Sept 2021 - Aug 2025*
Department of Computer Science, Brown University, RI, USA

M.S. in Computer Science, *Aug 2019 – May 2021*
Department of Computer Science, Columbia University, NY, USA

Special Student Program, *Feb 2018 – Jun 2018*
Department of Electrical Engineering and Computer Science, MIT, MA, USA

B.S. in Computer Science, *Sept 2015 - June 2019*
School of Computer Science, Fudan University, Shanghai, China

SELECTED PUBLICATIONS & PREPRINTS

[1] LASER: Layer-wise Scale Alignment for Training-Free Streaming 4D Reconstruction
Tianye Ding*, Yiming Xie*, **Yiqing Liang***, Moitreya Chatterjee, Pedro Miraldo, Huaizu Jiang
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026

[2] Terminal-Bench: Benchmarking Agents on Hard, Realistic Tasks in Command Line Interfaces
Mike A. Merrill et al.
International Conference on Learning Representations (ICLR), 2026

[3] MoDoMoDo: Multi-Domain Data Mixtures for Multimodal LLM Reinforcement Learning

Yiqing Liang, Jielin Qiu, Wenhao Ding, Zuxin Liu, James Tompkin, Mengdi Xu, Mengzhou Xia, Zhengzhong Tu, Laixi Shi, Jiacheng Zhu

ICCV 2025 Workshop (MMRAgL), Oral

[4] E3D-Bench: A Benchmark for End-to-End 3D Geometric Foundation Models

Wenyan Cong, **Yiqing Liang**, Yancheng Zhang, Ziyi Yang, Yan Wang, Boris Ivanovic, Marco Pavone, Chen Chen, Zhangyang Wang, Zhiwen Fan

Under Review, 2025

[5][Award Candidate] Zero-shot Monocular Scene Flow Estimation in the Wild

Yiqing Liang, Abhishek Badki*, Hang Su*, James Tompkin, Orazio Gallo

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025

[6] Monocular Dynamic Gaussian Splatting is Fast and Brittle but Smooth Motion Helps

Yiqing Liang, Mikhail Okunev, Mikaela Angelina Uy, Runfeng Li, Leonidas J. Guibas, James Tompkin, Adam Harley

Transactions on Machine Learning Research (TMLR), 2025

[7] GauFRe: Gaussian Deformation Fields for Real-time Dynamic Novel View Synthesis

Yiqing Liang, Numair Khan, Zhengqin Li, Thu Nguyen-Phuoc, Douglas Lanman, James Tompkin, Lei Xiao

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025

[8] Semantic Attention Flow Fields for Monocular Dynamic Scene Decomposition

Yiqing Liang, Eliot Laidlaw, Alexander Meyerowitz, Srinath Sridhar, James Tompkin

IEEE/CVF International Conference on Computer Vision (ICCV), 2023

[9] Scene Graph Enhanced Image-Text Learning for Visual Commonsense Reasoning

Zhecan Wang, Haoxuan You, Liunian Harold Li, Alireza Zareian, Suji Park, **Yiqing Liang**, Kai-Wei Chang, Shih-Fu Chang

The AAAI Conference on Artificial Intelligence (AAAI), 2022

[10] SSCNav: Confidence-Aware Semantic Scene Completion for Visual Semantic Navigation

Yiqing Liang, Boyuan Chen, Shuran Song

IEEE International Conference on Robotics and Automation (ICRA), 2021

ACADEMIC SERVICES

Organizing:

Workshop	4D World Models Workshop, CVPR 2026
	AI for Content Creation Workshop, CVPR 2026
	1st End-to-End 3D Learning (E2E3D) Workshop, ICCV 2025

Reviewing:

Conference	IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
	European Conference on Computer Vision (ECCV)
	IEEE/CVF International Conference on Computer Vision (ICCV)
	IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)
	Annual Conference of the European Association for Computer Graphics (Eurographics)
	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
	IEEE International Conference on Robotics and Automation (ICRA)
	Conference on Neural Information Processing Systems (NeurIPS)
Journal	Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
	IEEE Robotics and Automation Letters (RA-L)
	The Visual Computer: International Journal of Computer Graphics (TVCJ)

INVITED TALKS & ACTIVITIES

Learning to See in Four Dimensions: A Path to Spatiotemporal Intelligence Dec 2025
Invited talk *Department of Computer Science, Emory University, USA (host: Prof. Youngjoon Kwon)*

Zero-shot Monocular Scene Flow Estimation in the Wild April 2025
Invited talk *Visual Computing Group, Harvard, USA*

Zero-shot Monocular Scene Flow Estimation in the Wild Feb 2025
Lightning talk *NYC Computer Vision Day 2025, NYU, USA*

Gaussian Deformation Fields for Real-time Dynamic Novel View Synthesis Nov 2023
Oral presentation *The New England Computer Vision Workshop (NECV) 2023, Dartmouth, USA*

Semantic Attention Flow Fields for Monocular Dynamic Scene Decomposition Feb 2023
Long Talk *Invited Talk at Northeastern University, Hosted by Prof. Huaizu Jiang, USA*

Semantic Attention Flow Fields for Monocular Dynamic Scene Decomposition Dec 2022
Oral presentation *The New England Computer Vision Workshop (NECV) 2022, MIT, USA*

HONORS

- MIT EECS Rising Star 2025
- Outstanding Undergraduate Thesis, Fudan University, 2019
- Excellent Student Scholarship, Fudan University, 2016
- Excellent Student Leader, Fudan University, 2016