Yiqing Liang

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Personal webpage | Google Scholar | LinkedIn

Education

Brown University   Providence, RI
Ph.D. in Computer Science   Sep 2021–
- Advisor: Professor James Tompkin

Columbia University   New York, NY
M.S. (Thesis) in Computer Science   Aug 2019 – May 2021
- Advisor: Professor Shuran Song & Professor Shih-Fu Chang

Massachusetts Institute of Technology (MIT)   Cambridge, MA
Exchange Student, Electrical Engineering and Computer Science   Feb 2018 – Jun 2018
- Special Student Program

Fudan University   Shanghai, China
B.S. in Computer Science, Best Thesis Honor (A)   Sep 2015 – Jun 2019
- Selected awards: Excellent Student Scholarship (5%, 2016), Excellent Student Leader (5%, 2016)

Publications

[1] *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
Under Review, 2024
preprint

[2] *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
Project

[3] *Semantic Attention Flow Fields for Monocular Dynamic Scene Decomposition*
Yiqing Liang, Eliot Laidlaw, Alexander Meyerowitz, Srinath Sridhar, James Tompkin
Proceedings of the International Conference on Computer Vision (ICCV), 2023
Project Arxiv

[4] *Sgeitl: 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
Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2022
Project Arxiv

[5] *SSCNav: Confidence-Aware Semantic Scene Completion for Visual Semantic Navigation*
Yiqing Liang, Boyuan Chen, Shuran Song
Proceedings of the International Conference on Robotics and Automation (ICRA), 2021
Project Arxiv

Work Experience

NVIDIA Research   Santa Clara, CA
Research Scientist Intern   Jun 2024 – Nov 2024
- Learning and Perception Research group
- Mentor: Orazio Gallo

Meta Reality Lab   Redmond, WA
AI Research Scientist Intern   Jun 2023 – Nov 2023
- DSR team, efficient neural rendering
- Mentor: Numair Khan

SenseTime   Shanghai, China
Computer Vision Research Intern   Aug 2018 – Mar 2019
- Mentor: Cheng Li

Invited Talks

[1] "Semantic Attention Flow Fields for Monocular Dynamic Scene Decomposition" @ NECV2022, NEU
[2] "Gaussian Deformation Fields for Real-time Dynamic Novel View Synthesis" @ NECV2023

Community Services

[1] Brown Visual Computing Seminar organizer   Jan 2023–
[2] Brown WiCS mentor   Sep 2022–
[3] Brown Visual Computing Reading Group organizer   Sep 2021 – Jun 2022
[4] Brown Computer Science ExploreCSR mentor   Feb 2024 – Jun 2024