

# 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] *Zero-shot Monocular Scene Flow Estimation in the Wild*  
**Yiqing Liang**, Abhishek Badki, Hang Su, James Tompkin, Orazio Gallo  
Under Review, 2024  
[Project](#) [Arxiv](#)
- [2] *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  
[Project](#) [Arxiv](#)
- [3] *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](#) [Arxiv](#)
- [4] *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](#)
- [5] *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](#)
- [6] *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  
• Manager: [Orazio Gallo](#)
- Meta Reality Lab** Redmond, WA  
AI Research Scientist Intern Jun 2023 – Nov 2023  
• DSR team, efficient neural rendering  
• Manager: [Numair Khan](#)

**SenseTime**  
Computer Vision Research Intern  
• Manager: [Cheng Li](#)

Shanghai, China  
Aug 2018 – Mar 2019

## 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