

Yijie Deng

New York University, Tandon School of Engineering
+1 9293828926 ◇ yd3007@nyu.edu

EDUCATION

PhD of Computer Science Tandon School of Engineering, New York University GPA: 3.78/4.00	September 2024 - Present
Master of Data Science and Information Technology Tsinghua-Berkeley Shenzhen Institute, Tsinghua University GPA: 3.85/4.00	September 2021 - June 2024
Bachelor of Computer Science School of Computer Science, Wuhan University GPA: 3.89/4.00	September 2017 - June 2021

RESEARCH PUBLICATION

Yijie Deng, Shuaihang Yuan, Geeta Chandra Raju Bethala, Anthony Tzes, Yu-Shen Liu, and Yi Fang “*Hierarchical Scoring with 3D Gaussian Splatting for Instance Image-Goal Navigation*” submitted to ICLR 2026 September 2025

Yijie Deng, Shuaihang Yuan, Congcong Wen, Hao Huang, Anthony Tzes, Geeta Chandra Raju Bethala, Yu-Shen Liu, and Yi Fang “*FastMap: Efficient Environment Modeling for Object Goal Navigation*” submitted to the ICRA 2026 September 2025

Yijie Deng, Lei Han, and Lu Fang “*TransGI: Real-Time Dynamic Global Illumination With Object-Centric Neural Transfer Model*” accepted by IEEE Transactions on Visualization and Computer Graphics August 2025

Yijie Deng, Lei Han, Tianpeng Lin, Lin Li, Jinzhi Zhang and Lu Fang “*RealLiFe: Real-Time Light Field Reconstruction via Hierarchical Sparse Gradient Descent*” submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence May 2024

INTERNSHIP

Huawei Technologies Co Ltd Internship , Position: Algorithm developer of light field and real-time rendering	October 2022 - March 2024
Eon Reality Internship , Position: Game designer and programmer of virtual reality	June 2020 - August 2020

SKILLS AND RESEARCH INTERESTS

Research Interests	Robotics, Embodied navigation, Physically-based Rendering, Mixed Reality
Skills	Skilled in Python/C++/C#/CUDA/GLSL/Shader Slang

GRANTS AND AWARDS

Outstanding Graduate in School of Computer Science	2021
National English Competition for College Students, Second Prize of Hubei Province	2019
National Encouragement Scholarship (5000 CNY * 4 years)	2017-2021
First-class Scholarship for Excellent Students (3000 CNY * 4 years)	2017-2021
National Mathematics Competition for College Students, Second Prize of Hubei Province	2018
Nationally Televised CCTV New Hope English Speech Competition, First Prize of Hubei Province	2018