

# Yijie Deng

New York University, Tandon School of Engineering

<https://yijie21.github.io> ◇ yd3007@nyu.edu

## EDUCATION

---

**PhD of Computer Science** September 2024 - Present

Tandon School of Engineering, New York University (currently visiting Tsinghua University)

GPA: 3.78/4.00

**Master of Data Science and Information Technology** September 2021 - June 2024

Tsinghua-Berkeley Shenzhen Institute, Tsinghua University

GPA: 3.85/4.00

**Bachelor of Computer Science** September 2017 - June 2021

School of Computer Science, Wuhan University

GPA: 3.89/4.00

## RESEARCH PUBLICATION

---

**Yijie Deng**, Lei Han, Tianpeng Lin, Lin Li, Jinzhi Zhang and Lu Fang. *RealLiFe: Real-Time Light Field Reconstruction via Hierarchical Sparse Gradient Descent* accepted by IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) December 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 (TVCG) August 2025

**Yijie Deng**, Shuaihang Yuan, and Yi Fang. *AnyImageNav: Any-View Geometry For Precise Last-Meter Image-Goal Navigation* in submission March 2026

**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* in submission September 2025

**Yijie Deng**, Shuaihang Yuan, Congcong Wen, Hao Huang, Anthony Tzes, Geeta Chandra Raju Bethala, Yu-Shen Liu, and Yi Fang. *MapBERT: Bitwise Masked Modeling for Real-Time Semantic Mapping Generation* in submission September 2025

## INTERNSHIP

---

**Centific (Microsoft) Internship**,  
Position: Algorithm developer of generative video editing December 2025 - April 2026

**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

## 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