

YOUMING DENG

(+01) 607-327-7853
ymdeng@cs.cornell.edu
<https://denghilbert.github.io>

EDUCATION

Cornell University

Ithaca, USA

Ph.D. in Computer Science

2023 - present

- Advisor: Steve Marschner
- Research area: Graphics and 3D Vision

Wuhan University

Wuhan, China

B.E. in Information and Digital Technology

2019 - 2023

- Advisor: Yansheng Li

PUBLICATIONS

1. **Youming Deng**, Wenqi Xian, Guandao Yang, Leonidas Guibas, Gordon Wetzstein, Steve Marschner, Paul Debevec. Self-Calibrating Gaussian Splatting for Large Field-of-View Reconstruction. In *ICCV*, 2025.
2. Yansheng Li, Linlin Wang, Tingzhu Wang, Xue Yang, Junwei Luo, Qi Wang, **Youming Deng**, Wenbin Wang, Xian Sun, Haifeng Li, Bo Dang, Yongjun Zhang, Yi Yu, Junchi Yan. Star: A first-ever dataset and a large-scale benchmark for scene graph generation in large-size satellite imagery. *TPAMI*, 2024.
3. **Youming Deng**, Xueting Li, Sifei Liu, Ming-Hsuan Yang. Physics-based Indirect Illumination for Inverse Rendering. In *3DV*, 2024.
4. **Youming Deng**, Yansheng Li, Yongjun Zhang, Xiang Xiang, Jian Wang, Jingdong Chen, Jiayi Ma. Hierarchical Memory Learning for Fine-Grained Scene Graph Generation. In *ECCV*, 2022.

RESEARCH

Research Assistant at Cornell | Ithaca, USA

2023.08 - Present

- Advisor: Steve Marschner
- Project: self-calibration pipeline for large field of view camera reconstruction

Research Engineer at EPFL | Lausanne, Switzerland

2023.04 - 2023.08

- Advisor: Wenzel Jakob
- Project: conversion support between Blender and Mitsuba3 with color ramping

Visiting Student at UC Merced | Remote

2022.04 - 2023.08

- Advisor: Ming-Hsuan Yang
- Project: inverse rendering pipeline for non-differentiability lighting, material estimation, and accurate surface reconstruction

Research Assistant at Wuhan University | Wuhan, China

2021.06 - 2022.04

- Advisor: Yansheng Li
- Project: coarse-to-fine training framework for Scene Graph Generation

INTERNSHIP

Student Researcher at Google | Los Angeles, USA

2025.05 - Present

- Mentor: Lucy Chai
- Project: efficient and robust feed-forward structure-from-motion, general novel view synthesis pipeline from uncalibrated imagery

SKILLS

Languages: Chinese, English

Programming: Python, C++, CUDA

Framework: Pytorch, Jax, Mitsuba

ACADEMIC
SERVICES

Reviewers for SIGGRAPH, SIGGRAPH Asia
CVPR, ECCV, ICCV

Invited Talks World Lab

2nd Workshop on Neural Fields Beyond Conventional Cameras