

YOUMING DENG

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<https://denghilbert.github.io>

EDUCATION	Cornell University <i>Ph.D. in Computer Science</i> • Advisor: Steve Marschner • Research area: Graphics and 3D Vision	Ithaca, USA 2023 - present
	Wuhan University <i>B.E. in Information and Digital Technology</i> • Advisor: Yansheng Li	Wuhan, China 2019 - 2023
PUBLICATIONS	<ol style="list-style-type: none">1. Youming Deng, Wenqi Xian, Guandao Yang, Leonidas Guibas, Gordon Wetstein, Steve Marschner, Paul Debevec. Self-Calibrating Gaussian Splatting for Large Field-of-View Reconstruction. In <i>ICCV</i>, 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. <i>TPAMI</i>, 2024.3. Youming Deng, Xueting Li, Sifei Liu, Ming-Hsuan Yang. Physics-based Indirect Illumination for Inverse Rendering. In <i>3DV</i>, 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 <i>ECCV</i>, 2022.	
RESEARCH	Research Assistant at Cornell Ithaca, USA • Advisor: Steve Marschner and Paul Debevec • Project: self-calibration pipeline for large field of view camera reconstruction	2023.08 - Present
	Research Engineer at EPFL Lausanne, Switzerland • Advisor: Wenzel Jakob • Project: conversion support between Blender and Mitsuba3 with color ramping	2023.04 - 2023.08
	Visiting Student at UC Merced Remote • Advisor: Ming-Hsuan Yang • Project: inverse rendering pipeline for non-differentiability lighting, material estimation, and accurate surface reconstruction	2022.04 - 2023.08
	Research Assistant at Wuhan University Wuhan, China • Advisor: Yansheng Li • Project: coarse-to-fine training framework for Scene Graph Generation	2021.06 - 2022.04
	Student Researcher at Google Los Angeles, USA • Mentor: Lucy Chai • Project: efficient and robust feed-forward structure-from-motion, general novel view synthesis pipeline from uncalibrated imagery	2025.05 - Present
INTERNSHIP		

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