

YOUNMING DENG

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<https://denghilbert.github.io>

EDUCATION	Cornell University <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none">• Advisor: Steve Marschner• Research area: Graphics and 3D Vision	Ithaca, USA 2023 - present
	Wuhan University <i>B.E. in Information and Digital Technology</i> <ul style="list-style-type: none">• Advisor: Yansheng Li	Wuhan, China 2019 - 2023
PUBLICATIONS	<ol style="list-style-type: none">1. Youming Deng, Songyou Peng, Junyi Zhang, Kathryn Heal, Tiancheng Sun, John Flynn, Steve Marschner, Lucy Chai. Selfi: Self Improving Reconstruction Engine via 3D Geometric Feature Alignment. In <i>arXiv</i>, 2025.2. Xinhao Liu, Jiaqi Li, Youming Deng, Ruxin Chen, Yingjia Zhang, Yifei Ma, Li Guo, Yiming Li, Jing Zhang, Chen Feng. Wanderland: Geometrically Grounded Simulation for Open-World Embodied AI. In <i>arXiv</i>, 2025.3. Hexu Zhao, Xiaoteng Liu, Xiwen Min, Jianhao Huang, Youming Deng, Yanfei Li, Ang Li, Jinyang Li, Aurojit Panda. Scaling Point-based Differentiable Rendering for Large Scale 3D Reconstruction. In <i>arXiv</i>, 2025.4. 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 <i>ICCV</i>, 2025.5. Wei Chen, Lorenzo Bruzzone, Bo Dang, Yuan Gao, Youming Deng, Jin-Gang Yu, Liangqi Yuan, Yansheng Li. REST: Holistic Learning for End-to-End Semantic Segmentation of Whole-Scene Remote Sensing Imagery. <i>TPAMI</i>, 2025.6. 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>, 2024.7. Youming Deng, Xuetong Li, Sifei Liu, Ming-Hsuan Yang. Physics-based Indirect Illumination for Inverse Rendering. In <i>3DV</i>, 2024.8. 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.	
INTERNSHIP	Student Researcher at Google Los Angeles, USA <ul style="list-style-type: none">• Mentor: Lucy Chai• Project: efficient and robust feed-forward structure-from-motion, general novel view synthesis pipeline from uncalibrated imaginary	2025.05 - Present

RESEARCH	Research Assistant at Cornell Ithaca, USA	2023.08 - Present
	<ul style="list-style-type: none"> • Advisor: Steve Marschner and Paul Debevec • Project: self-calibration pipeline for large field of view camera reconstruction 	
	Research Engineer at EPFL Lausanne, Switzerland	2023.04 - 2023.08
	<ul style="list-style-type: none"> • Advisor: Wenzel Jakob • Project: conversion support between Blender and Mitsuba3 with color ramping 	
	Visiting Student at UC Merced Remote	2022.04 - 2023.08
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Advisor: Yansheng Li • Project: coarse-to-fine training framework for Scene Graph Generation 	
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	