

Youming Deng

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Education

Cornell University

Doctor of Philosophy in Computer Science

Ithaca, New York, United States

Aug. 2023 - May. 2028 (Expected)

Wuhan University

Bachelor of Engineering in Spatial Informatics & Digitalized Technology
GPA: 91.5/100

Wuhan, Hubei, China

Sep. 2019 - Jun. 2023

Research Experience

Research Intern at Realistic Graphics (EPFL)

Advisor: Professor Wenzel Jakob

Rte Cantonale, Lausanne, Switerland

Apr. 2023 - Present

- Developing inverse rendering under Mitsuba3 for indoor complex scenes
- Optimizing an efficient pipeline with the varying surface material

Research Intern at Vision and Learning Lab (UC Merced)

Advisor: Professor Ming-Hsuan Yang

Remote Intern

Apr. 2022 - Present

- Proposed an inverse rendering pipeline for object-centric decomposition
- Developed a sphere tracing refinement method for accurate geometry and training acceleration

Research Assistant at Wuhan University

Advisor: Professor Yansheng Li

Wuhan, Hubei, China

Jun. 2021 - Apr. 2022

- Proposed a coarse-to-fine training framework for Scene Graph Generation (SGG) training
- Filtering important parameter for long-tail training

Publications

Physics-based Indirect Illumination for Inverse Rendering

Youming Deng, Xueting Li, Sifei Liu, Ming-Hsuan Yang

Under Review 2023

Hierarchical Memory Learning for Fine-Grained Scene Graph Generation

Youming Deng, Yansheng Li, Yongjun Zhang, Xiang Xiang, Jian Wang, Jingdong Chen, Jiayi Ma

ECCV 2022

Awards

2021 Hongtu Scholarship

Top 1 from 340 undergraduates

2021 Excellent Student Scholarship

Top 1 from 52 undergraduates

Technical skills

Programming Languages/Tools Frameworks

C, C++, Java, Javascript, Python, Prolog, L^AT_EX
PyTorch, Keras, Dr.jit, Mitsuba, TensorFlow

Language proficiencies

Chinese Native speaker

English Proficient (TOEFL 106)