

Hongyu Wen

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Education

- 2022–Present Ph.D. in Computer Science, **Princeton University**
Advised by Professor Jia Deng
Research Area: *3D Computer Vision*
- 2018–2022 B.Sc. in Computer Science, **Peking University**
Turing Class, School of Electronics Engineering and Computer Science

Experience

- 2021 Research Internship, **Carnegie Mellon University**
Advised by Professor Deepak Pathak
Topic: *Object Manipulation*
- 2020 Research Assistant, **Peking University**
Advised by Professor Tingting Jiang
Topic: *Action Segmentation*

Publications

- ICCV 2025 **Seeing and Seeing Through the Glass:
Real and Synthetic Data for Multi-Layer Depth Estimation**
Hongyu Wen, Yiming Zuo, Venkat Subramanian, Patrick Chen, Jia Deng
- ECCV 2024 **LayeredFlow: A Real-World Benchmark for Non-Lambertian
Multi-Layer Optical Flow**
Hongyu Wen, Erich Liang, Jia Deng
- Preprint **Procedural Generation of Articulated Simulation-Ready Assets**
Abhishek Joshi, ..., Hongyu Wen, ..., Jia Deng
- CVPR 2024 **Infinigen Indoors: Photorealistic Indoor Scenes using Procedural Generation**
Alexander Raistrick*, Lingjie Mei*, Karhan Kayan*, ..., Hongyu Wen, ..., Jia Deng
- CVPR 2023 **Infinite photorealistic worlds using procedural generation**
Alexander Raistrick*, Lahav Lipson*, Zeyu Ma*, ..., Hongyu Wen, ..., Jia Deng
- BMVC 2021 **ASFormer: Transformer for Action Segmentation**
Fangqiu Yi, Hongyu Wen, Tingting Jiang.

Awards

- 2021–2019 **Peking University Scholarship (top 10%), Peking University**
- 2020 **Women Techmakers Scholars Program, Google**
- 2017 **Gold Medal, Asia-Pacific Informatics Olympiad**
- 2017 **Silver Medal, National Olympiad in Informatics (China)**

Teaching

- Spring 2024 **Neural Networks: Theory and Applications, Princeton University**
Teaching Assistant (Instructor: Sebastian Seung)
- Fall 2023 **Computer Graphics, Princeton University**
Teaching Assistant (Instructor: Adam Finkelstein)
- Spring 2022 **Algorithm Design and Analysis, Peking University**
Teaching Assistant (Instructor: Tingting Jiang)
- Spring 2019 **Intro to Computing (Honor-track), Peking University**
Teaching Assistant (Instructor: Junfeng Hu)

Service

- Reviewer CVPR 2025-2026, ACMMM 2025, ICCV 2025

Skills

- Programming Languages C/C++, C#, Python, Lisp, Java, Javascript, Assembly language
- Professional Skills PyTorch, TensorFlow, OpenCV, Blender, Unity, Django