

Hanzhe Hu

🌐 hzhupku.github.io | ✉ hanzheh@cs.cmu.edu | 📞 412-9802456

Education

Carnegie Mellon University

Ph.D. in Robotics, School of Computer Science
Advisor: Shubham Tulsiani

Pittsburgh, USA
2022 - 2027 (expected)

Peking University

M.S. in Computer Science, School of EECS
Advisor: Liwei Wang

Beijing, China
2019 - 2022

Nanjing University

B.S. in Physics, Elite Class, School of Physics

Nanjing, China
2015 - 2019

Scholarships and Awards

- Award for Academic Innovation, Peking University 2021
- Merit Student of Peking University, Peking University 2021
- Top 10 Outstanding Researcher, Peking University 2021
- Scholarship for Outstanding Research, Peking University 2020
- XINGQUAN Scholarship 2018
- Outstanding Student, Nanjing University 2018

Publications

Peer-Reviewed Conferences

- [1] **Hanzhe Hu**, Tianwei Yin, Fujun Luan, Yiwei Hu, Hao Tan, Zexiang Xu, Sai Bi, Shubham Tulsiani*, Kai Zhang*
Turbo3D: Ultra-fast Text-to-3D Generation
Arxiv, 2024
- [2] **Hanzhe Hu***, Zhizhuo Zhou*, Varun Jampani, Shubham Tulsiani
MVD-Fusion: Single-view 3D via Depth-consistent Multi-view Generation
In Conference on Computer Vision and Pattern Recognition (CVPR), 2024.
- [3] **Hanzhe Hu***, Yinbo Chen*, Jiarui Xu, Shubhankar Borse, Hong Cai, Fatih Porikli, Xiaolong Wang
Learning Implicit Feature Alignment Function for Semantic Segmentation
In European Conference on Computer Vision (ECCV), 2022.
- [4] **Hanzhe Hu**, Fangyun Wei, Han Hu, Qiwei Ye, Jinshi Cui, Liwei Wang
Semi-Supervised Semantic Segmentation via Adaptive Equalization Learning
In Neural Information Processing Systems (NeurIPS), 2021.
(Spotlight Presentation)

- [5] **Hanzhe Hu**, Jinshi Cui, Liwei Wang
Region-aware Contrastive Learning for Semantic Segmentation
 In International Conference on Computer Vision (ICCV), 2021.
- [6] **Hanzhe Hu**, Shuai Bai, Aoxue Li, Jinshi Cui, Liwei Wang
Dense Relation Distillation with Context-aware Aggregation for Few-Shot Object Detection
 In Conference on Computer Vision and Pattern Recognition (CVPR), 2021.
- [7] Deyi Ji, Haoran Wang, **Hanzhe Hu**, Weihao Gan, Wei Wu, Junjie Yan
Context-aware Graph Convolution Network for Target Re-identification
 In AAAI Conference on Artificial Intelligence (AAAI), 2021.
- [8] **Hanzhe Hu**, Deyi Ji, Weihao Gan, Shuai Bai, Wei Wu, Junjie Yan
Class-wise Dynamic Graph Convolution for Semantic Segmentation
 In European Conference on Computer Vision (ECCV), 2020.
- [9] **Hanzhe Hu**, Jinshi Cui, Hongbin Zha
Boundary-aware Graph Convolution for Semantic Segmentation
 In International Conference on Pattern Recognition (ICPR), 2020.
- [10] Shuai Bai, Zhiqun He, Yu Qiao, **Hanzhe Hu**, Wei Wu, Junjie Yan
Adaptive Dilated Network with Self-Correction Supervision for Counting
 In Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

Physics Journal

- [1] Kangning Jia, Shiyuan Liu, Haopeng Wan, Huade Mao, Xiaodong Xu, Huijun Zhou, Wenli Gao, Liping Cheng, Xuejun Yan, Shuyi Zhang, Xichen Zhang, Heng Zheng, Fenghui Li, Bo Wang, Xu Zhou, Haonan Zhao, **Hanzhe Hu**
Detecting residual stress on toughened glass surface by two complementary interferometers
 In Europhysics Letters, 2021.

Academic Service

Admission Committee

- CMU MSCV 2023-2025

Seminar Organizer

- CMU Computer Vision Reading Group

Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

- Neurocomputing

Conference Reviewer

- Computer Vision: CVPR, ICCV, ECCV, 3DV, BMVC, WACV
- Machine Learning: NeurIPS, ICML, ICLR, AISTATS
- Graphics: Siggraph Asia

Experience

Carnegie Mellon University Research Assistant, Physical Perception Lab Supervisor: Shubham Tulsiani	Pittsburgh, USA Oct 2022 - Present
Adobe Research Research Scientist Intern Supervisor: Kai Zhang	San Jose, USA May 2024 - Jan 2025
University of California San Diego Research Intern Supervisor: Xiaolong Wang	San Diego, USA Mar 2021 - Dec 2021
Peking University Research Assistant, Machine Learning Lab Supervisor: Liwei Wang	Beijing, China Mar 2020 - Jun 2022
Microsoft Research Asia Research Intern, Visual Computing Group Supervisor: Han Hu	Beijing, China Mar 2021 - Aug 2021
SenseTime Research Institute Research Intern, Smart City Group Supervisor: Junjie Yan	Beijing, China Mar 2019 - Mar 2021
Nanjing University Research Assistant, LAMDA Group Supervisor: Zhi-Hua Zhou	Nanjing, China Sep 2017 - Jun 2018

Skills

- **Programming Language:** C/C++, Python
- **Deep Learning Framework:** Pytorch, Tensorflow
- **Computing Software:** Matlab, Mathematica, Origin
- **Languages:** Chinese (Native), English (Proficient), Japanese (Limited)