





CONTACT
INFORMATION

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ACADEMIC
HISTORY

Technical University of Munich

Fall 2022 - Now

- PhD candidate in Computer Science and Engineering
- Advisor: Prof. [Angela Dai](#)

ShanghaiTech University

Fall 2019 - Spring 2022

- M.S. in Computer Science and Engineering
- Advisor: Prof. [Jingyi Yu](#)

Shandong University

Fall 2015 - Spring 2019

- B.S. in Automatic Control
- Advisor: Prof. [Guoliang Liu](#)

PUBLICATIONS

1. **Quan Meng**, Anpei Chen, Haimin Luo, Minye Wu, Hao Su, Lan Xu, Xuming He, and Jingyi Yu
GNeRF: GAN-Based Neural Radiance Field without Posed Camera
Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2021
Oral Presentation: 3.4%
 We introduce GNeRF, a method that can estimate neural radiance fields and camera poses jointly when the cameras are initialized at random poses in complex scenarios (outside-in scenes, even with less texture or intense noise). We achieve this by marrying Generative Adversarial Networks (GAN) with Neural Radiance Field.
2. **Quan Meng**, Jiakai Zhang, Qiang Hu, Xuming He, and Jingyi Yu
LGNN: A Context-Aware Line Segment Detector
Proceedings of the 28th ACM International Conference on Multimedia (ACM MM), 2020
Poster: 27.9%
 Existing approaches require a computationally expensive verification or postprocessing step. Our LGNN employs a deep convolutional neural network (DCNN) for proposing line segments directly, with a graph neural network (GNN) module for reasoning their connectivities. LGNN achieves comparable performance and enables time-sensitive 3D applications.

HONORS AND
AWARDS

- First prize in Macrochip Cup Microcontroller Application Technology Competition 2017
- First prize in [World Robot Contest Fighting Robot Competition](#). 2017
- First prize in [National Undergraduate Electronics Design Contest \(Shandong, China\)](#) 2017
- First prize in [National Undergraduate Electronics Design Contest \(Shandong, China\)](#) 2018
- Second prize in [The 4th Shandong College Students' Science and Innovation Contest](#) 2018
- National Scholarship Award, ShanghaiTech University 2021

TEACHING
EXPERIENCE
TECHNICAL
SKILLS

- CS280 Deep Learning in ShanghaiTech University: Teaching Assistant Fall 2020
- Programming: Linux, Python, C/C++, Pytorch, , Assembly Language (ARM), Java, Opencv, Latex, Matlab, Qt.
- Softwares: Blender, MeshLab, Illustrator, Keil
- Hardwares: Circuit Design, ARM, STM32, STC, PCB.

REFERENCES

- **Prof. Jingyi Yu**, ShanghaiTech University, yujingyi@shanghaitech.edu.cn
- **Prof. Hao Su**, UC San Diego, haosu@eng.ucsd.edu
- **Prof. Xuming He**, ShanghaiTech University, hexm@shanghaitech.edu.cn
- **Prof. Lan Xu**, ShanghaiTech University, xulan1@shanghaitech.edu.cn