

HUANG DAOJI

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EDUCATION

Peking University	09/2016 – 06/2020
Bachelor in Computer Science and Technology, Yuanpei College	GPA: 3.71 / 4.00
• Selected Awards: National Scholarship(2016, 5%), Outstanding Graduates (2020, 5%)	
Hong Kong University of Science and Technology (HKUST)	01/2019 – 06/2019
Visit student in Computer Science Department	GPA: 3.72 / 4.00
• Selected Awards: Dean's List(2019)	
ETH Zürich	09/2021 –
Master's student in Computer Science	GPA: 5.94 / 6.00

PAST PROJECTS

Wangxuan Institute of Computer Technology, Peking University	03/2018 – 06/2020
Topic: Novel-view Synthesis, Neural rendering. Advisor: Prof. Lian Zhouhui	
• Proposed a new best view selection algorithm of 3D object by jointly training object detection and pose estimation (<i>National University Student Innovation Program</i>).	
• Proposed a new novel view synthesis method that outperforms classical methods, generating 3D models' texture from synthesized images given a single view input, [Github link].	
Computer Science Department, HKUST	01/2019 – 06/2019
Topic: Few-shot object detection. Advisor: Prof. Dit-yan Yeung	
• Assisted a senior RA in reproducing several few-shot learning methods, [Github link].	
Visual Computing Group, ByteDance AILab	08/2020 – 07/2021
Topic: Neural Rendering. Mentor: Dr. Guo Yiwen	
• Incorporated a microfacet reflection model into Neural Radiance Field(NeRF).	
• Explored methods to train NeRF in a End2End way, [Project page].	

Selected Course Projects, Peking University

- **OS for Data Center**, a job management system based on master-slave structure, [Github link].
- **Modern Statistical Computing**, implemented various GD and MCMC methods, [Github link].
- **MiniC Compiler**, a compiler that translates simplified C to RISC assembly, [Github link].

SELECTED COURSES

Advanced Algebra	3.91/4.00	Computer Organization	4.00/4.00
Mathematical Analysis(I)	3.89/4.00	Advanced Machine Learning	6.00/6.00
Mathematical Analysis(II)	4.00/4.00	Prob. Artificial Intelligence	6.00/6.00
Mathematical Analysis(III)	3.95/4.00	Reliable and Interpretable A.I.	6.00/6.00

SKILLS

Programming Languages: Python, C/C++, Bash, MATLAB

Tools and Frameworks: Git, L^AT_EX, PyTorch, TensorFlow, OpenCV