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%) Rank: 44 / 247

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)

Research and 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 (*National University Student Innovation Program*)
- 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 – now

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.

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

Mathmatical Analysis(I)	3.89/4.00
Mathmatical Analysis(II)	4.00/4.00
Mathematical Analysis(III)	3.95/4.00
Advanced Algebra(II)	3.91/4.00
Algebraic Structure and Combinatorial Mathematics	3.99/4.00
Probability and Random Process for Engineering	4.00/4.00
Computer Organization	4.00/4.00

Skills

Programming Languages: Python, C/C++, Bash, MATLAB, HTML/CSS
Tools and Frameworks: Git, LaTeX, PyTorch, TensorFlow, Flax, OpenCV