Min Liu

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Education

Nanjing University Sept. 2019 – June. 2023 (expected)
B.S. in Computer Science and Technology, Kuang Yaming Honors School *Jiangsu, China*
- **GPA:** 4.57/5.00 (91.4/100) **Ranking:** 1st/15

The University of Hong Kong Jan. 2022 – June. 2022 (expected)
Exchange student in Faculty of Engineering *Hong Kong, China*

Research Experience

Nanjing University (NJUNLP) Sep. 2021 – Present
Research Intern, supervised by Associate Prof. Shujian Huang and Dr. Yu Bao *Jiangsu, China*
- Focusing on compression of iterative NAT models. I am analyzing the intermediate outputs and hidden states of CMLM to inspire the design of more efficient NAT models.

University of North Carolina at Chapel Hill (Kenan–Flagler) May. 2021 – Aug. 2021
Research Assistant, supervised by Assistant Prof. Yuqian Xu *(remote) NC, US*
- Responsible for data mining and basic regression model analysis in two econometric projects. Jingdong Project studied the effects of varying learning environments on the behavior of couriers. Haodaifu Project studied how COVID-19 influenced the online medical consultation industry.

Nanjing University (Institute of Computer Software) Sep. 2020 – May. 2021
Research Intern, supervised by Associate Prof. Yuan Yao *Jiangsu, China*
- Focused on defense against Trojan Attack, which was an important topic in security of deep neural networks. We proposed a mask generator to average out the trojan triggers. I was mainly responsible for experimenting with some of the techniques.

Research Interests
- Machine Learning, especially building systems that generalize well, require less data and computing resources, and are interpretable.
- AI Applications (e.g. NLP, CV, Biology)

Projects

Autonomous Driving Sep. 2021 – Present
Lead a team of 6 members
- Designing an autonomous car that can perceive the environment and do path planning automatically, based on ORB-SLAM2 and path planning algorithms.

NANOS Mar. 2021 – Jul. 2021
- Implemented a multiprocessor operating system with Physical Memory Management, Kernel Multi-threading and Virtual File System.

NJU Emulator Sept. 2020 – Dec. 2020
- Implemented an emulator for x86 instructions, a machine-independent abstraction layer, and a virtual machine on top of this layer where some software and games can be directly launched.

Selected Honors

1. **Yongman Yang Scholarship** 2021
2. **First Prize, National Elite Program Scholarship** 2020
3. **First Prize, People's Scholarship** 2020

Skills

Languages	Chinese (native), English (**TOEFL**: 104)
Programming	Python, C/C++, MATLAB, Assembly, Verilog, CSS/HTML
Frameworks	PyTorch, TensorFlow 2, Fairseq, Scikit-learn, NumPy, Pandas
Tools	Git, LaTeX, Stata