Hong Huang

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Education

City University of Hong Kong — Hong Kong, China
- *Department of Computer Science* — *Sept. 2024 – Present*
  Doctor of Philosophy — *Supervised by Prof. Dapeng Wu*

University of Florida — Florida, America
- *Department of Electrical and Computer Engineering* — *Aug. 2021 – May 2023*
  Master of Science; GPA: 3.62/4.00 — *Supervised by Prof. Dapeng Wu and Prof. Ruogu Fang*

Shanghai Jiao Tong University — Shanghai, China
- *Department of Computer Science and Engineering* — *Aug. 2017 – June 2021*
  Bachelor of Engineering; GPA: 3.68/4.00 — *Supervised by Prof. Jian Cao*

Papers

- **Hong Huang**, Weiming Zhuang, Chen Chen, and Lingjuan Lyu. "FedMef: Towards Memory-efficient Federated Dynamic Pruning." IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.
- **Hong Huang**, Lan Zhang, Chaoyue Sun, Ruogu Fang, Xiaoyong Yuan, and Dapeng Wu. "Distributed Pruning Towards Tiny Neural Networks in Federated Learning." IEEE 43rd International Conference on Distributed Computing Systems (ICDCS), 2023. (Acceptance rate: 18.9%)
- Liu, Tianqi, **Hong Huang**, Zhijun Lei, Ruogu Fang, and Dapeng Wu. "Texture and motion aware perception in-loop filter for AV1." Journal of Visual Communication and Image Representation, 2024.

Professional Employment

- **City University of Hong Kong** — Hong Kong, China
  Research Assistant; Mentored by Prof. Dapeng Wu — *Sept. 2023 - Aug. 2024*
  - Developed a quantization-based acceleration system for LLMs fine-tuning; filed a patent application
- **Sony AI** — Tokyo, Japan
  Research Intern; Mentored by Dr. Lingjuan Lyu — *Mar. 2023 - Aug. 2023*
  - Developed a novel memory-efficient federated dynamic pruning framework; published in CVPR2024
- **Meta** — California, America
  Research Assistant; Mentored by Dr. Zhijun Lei — *Mar. 2022 - Dec. 2022*
  - Developed a texture- and motion-sware perception in-loop filter to improve video quality; published in JVCIR
- **YITU Technology** — Shanghai, China
  Technique Support Intern; Mentored by Mr. Chunhao Zhao — *Jun. 2020 – Dec. 2020*

Professional Activities

- **Secondary Reviewer**:
  - IEEE Transactions on Neural Networks and Learning Systems (TNNLS) 2023
  - IEEE Transactions on Cloud Computing (TCC) 2023

Awards

- Graduate School Fellowship, University of Florida 2021 – 2023
- Zhiyuan Academic Honors Award, Shanghai Jiao Tong University 2017 – 2021

Technical Skills

- **Research Interests**: Model Compression, Algorithm Acceleration, Efficient On-device ML, Federated Learning
- **Programming**: Python, C/C++, Java, PyTorch, TensorRT, CUDA