

EDUCATION

- **Tsinghua University** Beijing, China
M.Eng in Department of Microelectronics and Nanoelectronics Sept. 2016 – Jun. 2019
- **Huazhong University of Science and Technology** Wuhan, China
B.Eng of Electronic Science and Technology ; GPA: 3.91/4.00 (Rank 3/162) Sept. 2012 – Jun. 2016

RESEARCH EXPERIENCE

- **Duke University** Durham, USA
Remote Intern in ECE Department; Advisor: Prof. Yiran Chen Jun. 2020 – Nov. 2020
- **SenseTime** Beijing, China
Research Intern / Researcher; Advisor: Prof. Wanli Ouyang Jun. 2018 – present
- **Tsinghua University** Beijing, China
Research Assistant; Advisor: Prof. Chun Zhang and Prof. Zhihua Wang Feb. 2017 – Jun. 2019

RESEARCH INTERESTS

- Hardware-Software Co-Design for Efficient Deep Learning
- Automatic Deep Learning (AutoML, Neural Architecture Search)

PUBLICATIONS

- **Feng Liang**, Chen Lin, Ronghao Guo, Ming Sun, Wei Wu, Junjie Yan, Wanli Ouyang, “Computation Reallocation for Object Detection,” **Accepted in ICLR2020. OpenReview. arxiv.**
- **Feng Liang***, Hsin-Pai Cheng*, Meng Li, Bowen Cheng, Vikas Chandra, Feng Yan, Hai Li, Yiran Chen, “ScaleNAS: One-Shot Learning of Scale-Aware Representations for Visual Recognition” **In submission. arxiv.**
- **Feng Liang***, Mingzhu Shen*, Chen Lin, Ming Sun, Junjie Yan, Wanli Ouyang, “Once Quantized for All: Progressively Searching for Quantized Efficient Models” **In submission. arxiv.**
- Jie Liu, Chuming Li, **Feng Liang**, Chen Lin, Ming Sun, Junjie Yan, Wanli Ouyang, Dong Xu, “Inception Convolution with Efficient Dilation Search,” **Accepted in CVPR2021. arxiv.**
- Rundong Li, Yan Wang, **Feng Liang**, Hongwei Qin, Junjie Yan, Rui Fan, “Fully Quantized Network for Object Detection,” **Accepted in CVPR2019. Paper.**
- Hsin-Pai Cheng, Tunhou Zhang, Yixing Zhang, Shiyu Li, **Feng Liang**, Feng Yan, Meng Li, Vikas Chandra, Hai Li, Yiran Chen, “NASGEM: Neural Architecture Search via Graph Embedding Method” **Accepted in AAAI2021. arxiv.**

*indicates equal contributions.

RESEARCH PROJECTS

- **Exploring Neural Architectures for Scale-Aware Representations** Durham, USA
Duke CEI Group. Advised by Prof. Yiran Chen Jun. 2020 – Nov. 2020
- **Neural Architecture Search for Efficient Quantized Networks** Beijing, China
SenseTime & USYD AutoML Group. Advised by Prof. Wanli Ouyang Jan. 2020 - present
- **Neural Architecture Search for Object Detection** Beijing, China
SenseTime & USYD AutoML Group. Advised by Prof. Wanli Ouyang Feb. 2019 - Nov. 2019
- **Low-Bit Quantization in Object Detection** Beijing, China
SenseTime Research. Advised by Dr. Hongwei Qin and Dr. Junjie Yan Jun. 2018 - Feb. 2019

AI COMPETITIONS

- **National College Students AI Competition – Championship in Big Data Tech.** Guangdong, China
Tsinghua University, Team Leader Jan. 2018 – Apr. 2018
- **Junction 2018 - Challenge Winner in Intelligent Infrastructure Track** Helsinki, Finland
Tsinghua University, Vision Developer Nov. 2018

SELECTED HONORS & AWARDS

- **National Scholarship** Ministry of Education; 2014 & 2015
- **Excellent Student Leader** Tsinghua University; 2018
- **Excellent Graduate** HUST; 2016

ADDITIONAL INFORMATION

- **English Proficiency:** TOEFL iBT: 110 (R30 L30 S23 W27)
- **Programming Skills:** Python(proficient), C++(familiar), C(basic)
- **Deep Learning Framework:** Pytorch(proficient), TensorFlow(familiar), Caffe(basic)
- **Leadership Activities:** President of Graduate Union of Department of Microelectronics and Nanoelectronics(2017-2018)