Feng Liang

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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.**
- Rundong Li, Yan Wang, **Feng Liang**, Hongwei Qin, Junjie Yan, Rui Fan, "Fully Quantized Network for Object Detection," **Accepted in CVPR2019. Paper.**
- **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" **Submitted to CVPR2021.**
- **Feng Liang***, Mingzhu Shen*, Chen Lin, Ming Sun, Junjie Yan, Wanli Ouyang, "Once Quantized for All: Progressively Searching for Quantized Efficient Models" **Submitted to ICLR2021. arxiv.**
- 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" **Submitted to 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 – present*
- **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)