

EDUCATION

- **The University of Texas at Austin** Austin, USA
Ph.D. in Electrical and Computer Engineering, advised by Prof. Diana Marculescu Aug. 2021 – present
- **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 Sept. 2012 – Jun. 2016

RESEARCH INTERESTS

- Machine learning, multi-modal learning as well as their applications
- Hardware-software co-design for efficient deep learning

RESEARCH EXPERIENCE

- **The University of Texas at Austin** Austin, United States
Research Assistant; Advisor: Prof. Diana Marculescu Aug. 2021 – present
- **SenseTime** Beijing, China
Researcher; Advisor: Prof. Wanli Ouyang Jun. 2019 – Aug. 2021
- **Duke University** Durham, United States
Remote Intern; Advisor: Prof. Yiran Chen Jun. 2020 – Nov. 2020
- **Tsinghua University** Beijing, China
Research Assistant; Advisor: Prof. Chun Zhang and Prof. Zhihua Wang Feb. 2017 – Jun. 2019

PUBLICATIONS

- Yangguang Li*, **Feng Liang***, Lichen Zhao*, Yufeng Cui, Wanli Ouyang, Jing Shao, Fengwei Yu, Junjie Yan, “Supervision Exists Everywhere: A Data Efficient Contrastive Language-Image Pre-training Paradigm” **Accepted in ICLR2022.**
- **Feng Liang**, Ting-Wu Chin, Yang Zhou, Diana Marculescu, “ANT: Adapt Network Across Time for Efficient Video Processing” **Accepted in CVPRW-ECV2022.**
- Luya Wang, **Feng Liang**, Yangguang Li, Honggang Zhang, Wanli Ouyang, Jing Shao, “RePre: Improving Self-Supervised Vision Transformer with Reconstructive Pre-training” **Accepted in IJCAI2022.**
- **Feng Liang**, Chen Lin, Ronghao Guo, Ming Sun, Wei Wu, Junjie Yan, Wanli Ouyang, “Computation Reallocation for Object Detection” **Accepted in ICLR2020.**
- Mingzhu Shen, **Feng Liang**, Ruihao Gong, Yuhang Li, Chuming Li, Chen Lin, Fengwei Yu, Junjie Yan, Wanli Ouyang, “Once Quantization-Aware Training: High Performance Extremely Low-bit Architecture Search” **Accepted in ICCV2021.**
- 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.**
- Rundong Li, Yan Wang, **Feng Liang**, Hongwei Qin, Junjie Yan, Rui Fan, “Fully Quantized Network for Object Detection” **Accepted in CVPR2019.**
- 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.**
- Hsin-Pai Cheng*, **Feng Liang***, Meng Li, Bowen Cheng, Vikas Chandra, Feng Yan, Hai Li, Yiran Chen, “ScaleNAS: One-Shot Learning of Scale-Aware Representations for Visual Recognition” **Manuscript.**

*indicates equal contributions.

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

- **UT Austin Engineering Fellowship** UT Austin; 2021
- **Excellent Student Leader** Tsinghua University; 2018
- **National Scholarship** Ministry of Education; 2014 & 2015

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)