

Jiayi Yang

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EDUCATION

Beijing University of Posts and Telecommunications

Beijing

B.E. of Telecommunication Engineering with Management

Sep 2016 - Jul 2020

- GPA: **90.13**/100 (Rank 8/328)
- TOEFL: **117**/120(Speaking 29)
- Honors/Awards: 1st Class Scholarship of BUPT(2016-2017)
- Relevant Coursework: Advanced Mathematics, C Programming Basics, Computer Basics, Java Programming Basics, Database, Advanced Network Programming, Data Structures

Tsinghua University

Beijing

Research Intern at Center for Brain Inspired Computing Research

Jul 2018 - Jul 2019

- Advised by Prof. Guoqi Li
- Research Area: Neural Network Compression, Semantic Segmentation

University of California, Santa Barbara

Santa Barbara, CA

Research Intern at Scalable Energy-Efficient Architecture Lab

Jul 2019 - Oct 2019

- Advised by Dr. Lei Deng
- Research Area: Neural Network Compression, Spiking Neural Network

PUBLICATIONS

- **J. Yang**, T. Hu, J. Yang, Z. Zhang, Y. Pan, Large Kernel Spatial Pyramid Pooling for Semantic Segmentation, ICIG 2019

RESEARCH EXPERIENCE

Large Kernel Spatial Pyramid Pooling for Image Segmentation

Beijing

Beijing University of Posts and Telecommunications

Apr 2018 - Nov 2018

Group Leader, Advised by Prof. Junli Yang

- Initiated a timeline for the project and distributed tasks to group members
- Designing an demonstration that performs live semantic segmentation in the webpage
- Published paper "Large Kernel Spatial Pyramid Pooling for Semantic Segmentation" on ICIG 2019

Training and Inference for Integer-based Semantic Segmentation Network

Beijing

Tsinghua University

Nov 2018 - Jul 2019

Research Intern at Center for Brain Inspired Computing Research

- Research on training and inferencing semantic segmentation network with discrete data flow
- Propose quantization framework that constrain network data flows to 8 bit and adapt for Integer-based deep learning accelerator
- Wrote paper "Training and Inference for Integer-based Semantic Segmentation Network" (Under review)

PROJECT EXPERIENCE

Demonstration Platform for "Tianjic" Chipset, Tsinghua University

Beijing

Research Intern at Center for Brain Inspired Computing Research

Jul 2018 - Oct 2018

- Built web application using UDP for short distance transmission of data and result for the simulation system.
- Design specific quantized Convolutional Neural Network for simulation.
- Mapping and simulation of Convolutional Neural Network on "Tianjic" Brain Inspired Computation chip set.