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*

INTERN EXPERIENCE

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 - Sep 2019*

- *Advised by Dr. Lei Deng*
- *Research Area: Neural Network Compression, Deep Learning*

PUBLICATIONS

- **J. Yang**, T. Hu, J, Yang, Z. Zhang, Y. Pan, Large Kernel Spatial Pyramid Pooling for Semantic Segmentation, ICIG 2019
- **J. Yang**, L. Deng, Y, Yang, Y. Xie, G. Li, Training and Inference for Integer-Based Semantic Segmentation, *Pattern Recognition* (Under Review)

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*
- *Contribute 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.*