
EDUCATION	Beihang University , Beijing, China Bachelor in Electronic Engineering, Sept 2013 - July 2017 Major GPA: 3.84/4, Rank: 12/301 Thesis: Real-time GPS Signal Processing Using GPU
EXPERIENCE	HPC Intern , Tusimple Feb 2017 - present Binary neural networks; int8 inference acceleration; auto optimization of deep network workloads with tensor compilation and kernel fusion. Research Assistant , HKUST July 2016 - Sept 2016 Prototyping of low-power sports watch on Arduino. Most work done in C.
PUBLICATION	Yuwei Hu , Jidong Zhai, Dinghua Li, Yifan Gong, Yuhao Zhu, Lei Su, Wei Liu, Jiangming Jin, “BitFlow: Exploiting Vector Parallelism for Binary Neural Networks on CPU”, in submission to <i>IEEE International Parallel and Distributed Processing Symposium (IPDPS) 2018</i> . Tianqi Chen, Thierry Moreau, Ziheng Jiang, Haichen Shen, Eddie Yan, Leyuan Wang, Yuwei Hu , Luis Ceze, Carlos Guestrin, Arvind Krishnamurthy, “TVM: End to End Optimization Stack for Deep Learning”, in submission to <i>Programming Language Design and Implementation (PLDI) 2018</i> . Yuwei Hu , Haibin Duan, “Gaussian Entropy Weight Pigeon-Inspired Optimization for Rectangular Waveguide Design”, in <i>Proceedings of IEEE Chinese Guidance, Navigation and Control Conference (CGNCC) 2016</i> .
PROJECTS	TVM: Tensor IR Stack for Deep Learning Systems dmlc/tvm My contributions: schedule optimization of depthwise convolution; mobilenet end to end compilation, 1.8x faster than tensorflow tested on GTX1080. BitFlow: Exploiting Computing Power of Binary Neural Networks A gemm-operator-network three-level optimization framework; enables BNNs to run on CPU with speed comparable to full-precision networks on GPU. MXNet to TensorRT Model Converter Deploy neural network models trained on MXNet to TensorRT for fast inference.
AWARDS AND HONORS	Meritorious Winner of Mathematical Contest in Modeling (MCM) Apr 2016 First Prize in the University Students Physics Competition of China Nov 2014 Excellent Undergraduate Award Dec 2014
TOOLS	C/C++, CUDA, Python, Matlab
ENGLISH TESTS	TOEFL:111, GRE:337