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Education

Indiana University Bloomington

Bloomington, IN

MASTER OF COMPUTER ENGINEERING

Aug. 2017 - Exp. Dec. 2019

· Working as a Research Assistant in the field of Security, Deep Learning and Computer Architecture

Shandong University

Jinan, China

Mar. 2013 - Aug. 2017

B.S. IN COMPUTER SCIENCE AND ENGINEERING

• Overall GPA: 91.76/100; Rank: 4/300;

Publications

[C8] Qian Lou, and Lei Jiang "MENDEL: Algorithm/Hardware Co-design for Accelerating Nanopore Genome Base-calling", Submitted to AS-PLOS 2020.

[C7] Qian Lou, Kim Minje, Lantao Liu and Lei Jiang "AutoQB: AutoML for Network Quantization and Binarization on Mobile Devices", Submitted to ICLR 2020.

[C6] **Qian Lou**, Wenyang Liu, Weichen Liu and Lei Jiang "MindReading: An Ultra Low-Power Nanophotonic Accelerator for EEG-based Intention Recognition", IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC), 2020.

- [C5] Qian Lou, Lei Jiang "SHE:A fast and accurate deep neural networks for encrypted data", (NeurIPS), 2019.
- [C4] Qian Lou, Lei Jiang "Towards A fast and accurate deep neural networks for encrypted data", (ICML workshop), 2019.
- [C3] Weichen Liu, Wenyang Liu, Yichen Ye, **Qian Lou**, Yiyuan Xie and Lei Jiang "Holylight:A Nanophotonic Accelerator for Deep Learning in Data Centers", IEEE/ACM Design, Automation & Test in Europe Conference & Exhibition (DATE), 2019.
- [C2] **Qian Lou**, Wujie Wen, and Lei Jiang "3DICT: A Reliable and QoS Capable Mobile Process-In-MemoryArchitecture for Lookup-based CNNs in 3D XPoint ReRAMs", *IEEE/ACM International Conference On Computer Aided Design (ICCAD)*, 2018
- [C1] **Qian Lou**, Mengying Zhao, Lei Ju, Chun Jason Xue, Jingtong Hu, Zhiping Jia "Runtime and reconfiguration dual-aware placement for SRAM-NVM hybrid FPGAs.", IEEE Non-Volatile Memory Systems and Applications Symposium (NVMSA), 2017

[j1] **Qian Lou**, and Lei Jiang "BRAWL: A Spintronics-Based Portable Basecalling-in-Memory Architecture for Nanopore Genome Sequencing", *IEEE Computer Architecture Letters (CAL)*, 2018

Honors & Awards

INTERNATIONAL

2018 **Best paper nominee**, 2018 International Conference On Computer Aided Design

San Diego, U.S.A

2015 Honorable award, The Mathematical Contest in Modeling

U.S.A

Presentation

37th ICCAD (International Conference On Computer Aided Design)

San Diego, United States

PRESENTER FOR OUR PAPER: 3DICT

Nov 2018

• Introduced 3DICT accelerating lookup-based convolutional neural networks using the emerging memory technology

ISLPED 2017 (ACM/IEEE International Symposium on Low Power Electronics and Design)

Taipei, Taiwan

PRESENTER FOR A PAPER: XNOR-POP

July. 2017

• Introduced XNOR-POP accelerating binarized neural networks using the emerging memory technology

Extracurricular Activity _____

Student Union in Shandong University

Jinan, China

CORE MEMBER & PRESIDENT AT 2014

Jun. 2013 - Jun.2014

- Environment Evaluation Survey of Jinan city.
- Volunteer