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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

**B.S. IN COMPUTER SCIENCE AND ENGINEERING** 

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

Mar. 2013 - Aug. 2017

# **Publications**

[C8] Qian Lou, and Lei Jiang "MENDEL: Algorithm/Hardware Co-design for Accelerating Nanopore Genome Base-calling", Under review

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

[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-Memory Architecture 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

Jun. 2013 - Jun.2014

CORE MEMBER & PRESIDENT AT 2014

· Environment Evaluation Survey of Jinan city.

Volunteer

October 18, 2019 Claud D. Park · Résumé