

# Zhuolun (Leon) HE

The Chinese University of Hong Kong  
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## RESEARCH INTEREST

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Machine learning on combinatorial optimization

## EDUCATION

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### The Chinese University of Hong Kong

Ph.D. student in Computer Science and Engineering  
Supervisor: Prof. Bei Yu

Hong Kong  
Aug. 2019 - Present

### Peking University

Ph.D. student in Computer Architecture  
Supervisor: Prof. Guojie Luo

Beijing  
Sept. 2017 - Sept. 2018

### Peking University

B.S. in Computer Science and Technology

Thesis: Architecture Support for Monadic Serial Dynamic Programming Algorithm

Beijing  
Sept. 2013 - Jul. 2017

## PUBLICATION

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1. Ching-Yun Ko, Cong Chen, **Zhuolun He**, Yuke Zhang, Kim Batselier, and Ngai Wong. "Deep Model Compression and Inference Speedup of Sum-Product Networks on Tensor Trains". *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2019.
2. **Zhuolun He**, Hanxian Huang, Ming Jiang, Yuanchao Bai, and Guojie Luo. "FPGA-based Real-time Super-resolution System for Ultra High Definition Videos". *IEEE International Symposium on Field-Programmable Custom Computing Machines (FCCM)*, 2018.
3. **Zhuolun He** and Guojie Luo. "FPGA Acceleration for Computational Glass-Free Displays". *ACM/SIGDA International Symposium on Field-Programmable Gate Arrays (FPGA)*, 2017.

## WORK EXPERIENCE

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### The University of Hong Kong

Research Assistant

Hong Kong  
Nov. 2018 - Jul. 2019

## AWARDS

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- Champion of EDathon 2018 2018
- Outstanding bachelor thesis award of EECS, Peking University 2017

## SKILL SET

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### Programming

Proficient in C/C++, Python

### Framework/Tool

Experienced with HLS-C, Javascript, MATLAB, PHP  
Bash, Bootstrap,  $\LaTeX$ , OpenMP, PyTorch