

Zhuolun (Leon) He

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"I am strong because I've been weak."

Research Interests

Application-driven accelerator design, Electronic Design Automations, Natural Language Processing

Skills

Programming

Proficient in C/C++, Python, Javascript, HLS-C, HTML, \LaTeX

Experience with Bash, MATLAB, OpenMP, CUDA, PHP, Assembly, Tensorflow, PyTorch

Languages

Mandarin(native), Cantonese(native), English(fluent), Hakka(native)

Education

Peking University

PH.D STUDENT IN COMPUTER ARCHITECTURE

Beijing, China

Sep. 2017 - Current

- Work with Center for Energy-efficient Computing and Applications (CECA), supervised by Prof. Guojie Luo
- Teaching Assistant of: Introduction to Computing, Introduction to Parallel and Distributed Computing

Peking University

B.S. IN COMPUTER SCIENCE AND TECHNOLOGY

Beijing, China

Sep. 2013 - Jul. 2017

- Thesis: Architecture Support for Monadic Serial Dynamic Programming Algorithm

Publications

1. **Zhuolun He**, Hanxian Huang, Ming Jiang, Yuanchao Bai, and Guojie Luo, "FPGA-based Real-time Super-Resolution System for Ultra High Definition Videos," *Proceedings of the IEEE International Symposium on Field-Programmable Custom Computing Machines (FCCM 2018)*, Boulder, CO, USA, April 29 - May 1, 2018.
2. **Zhuolun He** and Guojie Luo, "FPGA Acceleration for Computational Glass-Free Displays," *Proceedings of the 25th ACM/SIGDA International Symposium on Field-Programmable Gate Arrays (FPGA 2017)*, Monterey, CA, USA, pp. 267-274, February 22-24, 2017.

Honors & Awards

2018 **Champion**, EDATHon 2018

Hong Kong, China

2017 **Outstanding Bachelor Thesis Award**, School of EECS, Peking University

Beijing, China

Personal Interests

- Coffee: I enjoy coffee brewing and tasting very much. I believe COFFEE HAS MAGIC. Recently I am quite obsessed with Sidamo by its flavors of spice (like pepper).
- Photography: I like to capture the amazing moments in leisure time, with Canon EOS 6D plus a popular 24-105mm lens. I post some photos on Instagram <https://www.instagram.com/z.leon.he/>.
- Music: I had learned to play the keyboard for five years and guitar for four years. I joined an electronic band as an electric guitarist.