## **EDUCATION**

### **KU** Leuven

Ph.D. in Engineering Science

• Multi-core machine learning chips

### **Fudan University**

M.S. in Integrated Circuits and Systems Design

- GPA: 3.56/4 (Rank: Not available)
- Research interests: Computer Architecture, Design Space Exploration, AI Accelerators Design, AI Accelerators High-level Modeling, Electronic Design Automation (EDA)

### **Fudan University**

B.E. in Microelectronic Science and Engineering

- GPA: 3.67/4.0 (Rank: top 10%)
- Relevant coursework: Computer Architecture, Design of Integrated Circuits, Principles and Applications of FPGA, Mathematical Statistics and Stochastic Process, Signal and System, Data Structure and Algorithm Design

### University of Alberta

Exchange student

• Focused on learning academic writing and public speaking

### PUBLICATIONS

- Xiaoling Yi, Jialin Lu, Xiankui Xiong, Dong Xu, Li Shang and Fan Yang, "Graph Representation Learning for Microarchitecture Design Space Exploration," Design Automation Conference (DAC), 2023.
- Xiaoling Yi, Jiangnan Yu, Zheng Wu, Xiankui Xiong, Dong Xu, Chixiao Chen, Jun Tao, Fan Yang, "NNASIM: an Efficient Event-Driven Simulator for DNN Accelerators with Accurate Timing and Area Models," IEEE International Symposium on Circuits and Systems (ISCAS), 2022.
- Zheng Wu, Wuzhen Xie, Xiaoling Yi, Haotao Yang, Ruiyao Pu, Xiankui Xiong, Haidong Yao, Chixiao Chen, Jun Tao, Fan Yang, "An Automated Compiler for RISC-V Based DNN Accelerator," IEEE International Symposium on Circuits and Systems (ISCAS), 2022.
- Jiangnan Yu, Fan Yang, Xiaoling Yi, Chixiao Chen, Jun Tao, Dong Xu, Xiankui Xiong, Haotao Yang, "TNoC: A Flexible Topology Reconfigurable NoC Generator for Manycore DNN Accelerators," Great Lakes Symposium on VLSI, 2023.
- Wu, Zheng, Xiaoling Yi, Li Shang, and Fan Yang. "SenseDSE: Sensitivity-Based Performance Evaluation for Design Space Exploration of Microarchitecture." In 2024 Design, Automation Test in Europe Conference Exhibition (DATE), pp. 1-6. IEEE, 2024.
- Wu, Zheng, Jinyi Shen, Xiaoling Yi, Li Shang, Fan Yang, and Xuan Zeng. "Prior-Boosted GRL: Microarchitecture Design Space Exploration via Graph Representation Learning." IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (2024).

## **RESEARCH EXPERIENCE**

Fudan University (State Key Laboratory of Integrated Chips and Systems) Shanghai, China Research Assistant to Prof. Fan Yang Jul 2020 - June 2023

- BOOM (Berkeley Out-of-order Machine) microarchitecture exploration with graph representation learning
- AI accelerator design, FPGA prototype, and high-level modeling

Leuven, Belgium Sep 2023 - Present

Shanghai, China Sep 2020 - Jun 2023

Shanghai, China

Sep 2016 - Jun 2020

Alberta, Canada Jul 2019 - Aug 2019

# XIAOLING,YI

Tel: +86-18717805027 | Email:xlvi20@fudan.edu.cn HomePage: https://xiaolingyi.github.io

## INTERNSHIP

## DAMO Academy, Alibaba Group

 $Research \ Intern$ 

- $\bullet\,$  Memory pooling at data center using CXL
- Special functional unit hardware design and verification

### Advanced Micro Devices, Inc

System Design Intern

• Performed Intern duties, focused on x86 SoC architecture, firmware basic, and low power design practices

## CONTEST EXPERIENCE

• 1st Place Award, CAD Contest at International Conference on Computer-Aided Design (ICCAD) 2022 (to	op 1) 2022
• National 1 st Prize, Integrated Circuit EDA Elite Challenge (top 5 %)	2021
• National 2nd Prize, China Post-Graduate Mathematical Contest in Modeling (top 15 $\%)$	2021
- National 3rd Prize, National College Students Electronic Design Competition (top 20 $\%)$	2019

## SELECTED AWARDS AND HONORS

• Outstanding Graduate of Fudan University (top 5 %)	2023
• Excellent Master Thesis of Fudan University (top 5 %)	2023
- College Graduate Excellence Award of Shanghai (top 5 %)	2020
• First Prize Scholarship, Fudan University (top 5 %)	2021, 2019
• Outstanding Student of Fudan University (top 5 %)	2018
• Second Prize Scholarship, Fudan University (top 15 %)	2017,2018,2020,2022

## TEACHING

Fudan University	Shanghai, China
Teaching Assistant	Sep 2020 - Jun 2021
• Performed TA duties for Fundamentals of Computer Software, Spring 202	1 (instructor: Prof. Changhao Yan)

• Performed TA duties for System-Level FPGA Design, Fall 2020 (instructor: Prof. Lingli Wang and Dr. Xuegong Zhou)

Shanghai, China Mar 2023 - Aug 2023

Shanghai, China Jul 2022 - Sep 2022