

JING MAI

👤 Ph.D. Student ◇ Center for Energy-efficient Computing and Applications ◇ Department of Computer Science
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📖 EDUCATION

Ph.D. in Computer Science **Sept. 2021 – Present**
Center for Energy-efficient Computing and Applications (CECA), Peking University *Beijing, China*
Advisor: **Prof. Yibo Lin**
Research Areas: Machine Learning-assisted EDA, MLSys, and Probabilistic Modeling

B.S. in Computer Science **Sept. 2017 – June 2021**
School of Electronics Engineering and Computer Science (EECS), Peking University *Beijing, China*

📚 PUBLICATIONS

(* denotes alphabetical ordering or equal contribution)

1. Zizheng Guo*, **Jing Mai***, Yibo Lin. *Ultrafast CPU/GPU Kernels for Density Accumulation in Placement. 58th ACM/IEEE Design Automation Conference (DAC)*, 2021.
2. Yihua Cheng, Zejia Fan, **Jing Mai**, Yifan Wu, Pengcheng Xu, Yuxuan Yan, Zhenxin Fu, Yun Liang. *Critique of “Planetary Normal Mode Computation: Parallel Algorithms, Performance, and Reproducibility” by SCC Team From Peking University. IEEE Transactions on Parallel and Distributed Systems (IEEE Trans Parallel Distrib Syst)*, 2021.

👜 EXPERIENCE

Nanjing Industrial Innovation Center of EDA (NiCEDA), Shanghai, China Aug 2021 – Sept. 2021
Software Development Engineer Intern
Dataflow-driven global placement

Chinese University of Hong Kong (CUHK), Shenzhen, China July 2020 – Aug 2020
Summer Intern
Electrostatics-Based global placement for FPGAs, co-advised by *Prof. Yibo Lin* and *Prof. Bei Yu*

🏆 AWARDS AND HONORS

EDA Elite Challenge (Second Prize) Dec 2021
Outstanding Undergraduate Graduates in Beijing (top 1%) May 2021
Beijing *Challenge Cup* Competition (Second Prize) May 2021
Xiaomi Scholarship, Peking University Dec 2020
Merit Student, Peking University (top 5%) Dec 2019, Dec 2020
Huawei Scholarship, Peking University Dec 2019
Honors for *Outstanding Academic Performance*, Peking University Dec 2018
The 43rd ACM-ICPC Asia Regional Competition (Gold Award) Nov 2018

👋 SKILLS

Programming Languages and Softwares
C/C++, Python, Java, Pytorch, Tensorflow, \LaTeX , Git, CUDA, Docker, Data Analysis/Visualization(Pandas)

Web Development
HTML5, JavaScript

EDA Tools
Xilinx Vivado

Languages
Mandarin, Cantonese, English, Japanese