

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 <i>Center for Energy-efficient Computing and Applications (CECA), Peking University</i> Advisor: Prof. Yibo Lin Research Areas: Machine Learning-assisted EDA, MLSys, and Probabilistic Modeling	Sept. 2021 – Present <i>Beijing, China</i>
B.S. in Computer Science <i>School of Electronics Engineering and Computer Science (EECS), Peking University</i>	Sept. 2017 – June 2021 <i>Beijing, China</i>

📚 PUBLICATIONS

(* denotes alphabetical ordering or equal contribution)

1. **Jing Mai**, Yibai Meng, Zhixiong Di, Yibo Lin. *Multi-Electrostatic FPGA Placement Considering SLICEL-SLICEM Heterogeneity and Clock Feasibility*. 59th ACM/IEEE Design Automation Conference (**DAC**), 2022.
2. Zizheng Guo*, **Jing Mai***, Yibo Lin. *Ultrafast CPU/GPU Kernels for Density Accumulation in Placement*. 58th ACM/IEEE Design Automation Conference (**DAC**), 2021.
3. 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 <i>Software Development Engineer Intern</i> Dataflow-driven global placement	Aug 2021 – Sept. 2021
Chinese University of Hong Kong (CUHK), Shenzhen, China <i>Summer Intern</i> Electrostatics-Based global placement for FPGAs, co-advised by <i>Prof. Yibo Lin</i> and <i>Prof. Bei Yu</i>	July 2020 – Aug 2020

🏆 AWARDS AND HONORS

The 3rd EDA Elite Challenge (Second Prize)	Dec 2021
Honors for Outstanding Undergraduate Graduates in Beijing (top 1%)	May 2021
Beijing <i>Challenge Cup</i> Competition (Second Prize)	May 2021
<i>Xiaomi Scholarship</i> , Peking University	Dec 2020
Honors for <i>Merit Student</i> , Peking University (top 5%)	Dec 2019, Dec 2020
<i>Huawei Scholarship</i> , Peking University	Dec 2019
Honors for <i>Outstanding Academic Performance</i> , 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