FANGZHOU WANG

Ph.D. Candidate ◇ Department of Computer Science and Engineering
Room 913, Ho Sin Hang Engineering Building ◇ The Chinese University of Hong Kong
fzwang@cse.cuhk.edu.hk

RESEARCH INTERESTS

- Physical Design in VLSI CAD
- SAT with Applications in CAD
- VLSI Routing (Global Routing and Detailed Routing)

EDUCATION

The Chinese University of Hong Kong, NT, Hong Kong Aug. 2019 – Present
Ph.D. Student, Department of Computer Science and Engineering.
Advisor: Prof. Evangeline F.Y. Young

City University of Hong Kong, Kowloon, Hong Kong Aug. 2015 – Jul. 2019
B.S., Computer Science (First Class Honours).
(GPA 3.94/4.30, RANK 2/91)
Dissertation: "Faster Video Super-Resolution System"

Tsinghua University, Beijing, P. R. China Sep. 2016 – Jan. 2017
Exchange Student, Department of Computer Science and Technology.

EXPERIENCE

City University of Hong Kong, Kowloon, Hong Kong Sep 2018 – Apr. 2019
Part-time Research Assistant, with Prof. Hong Xu, Henry
Topic: A deep learning-based video super-resolution system

City University of Hong Kong, Kowloon, Hong Kong Jun 2018 – Aug. 2018
Full-time Research Assistant, with Prof. Hong Xu, Henry
Topic: A scheduling mechanism between nodes in a distributed machine learning system

Hong Kong Exchanges and Clearing Limited, Sai Kung, Hong Kong Aug. 2017 – May 2018
Assistant Analyst Programmer, Cash Satellite Systems Regular Team
Topic: Data processing and software testing

City University of Hong Kong, Kowloon, Hong Kong Aug 2016 – Dec. 2018
ACM-ICPC Team Member, Department of Computer Science
Topic: Data structures and algorithm design

PUBLICATIONS

Journal Papers

[J1] Itai Feigenbaum, Minming Li, Jay Sethuraman, **Fangzhou Wang**, Shaokun Zou, "Strategic facility location problems with linear single-dipped and single-peaked preferences", Autonomous Agents and Multi-Agent Systems 34, no. 2 (2020): 1-47.

Conference Papers

[C3] **Fangzhou Wang**, Lixin Liu, Jingsong Chen, Jinwei Liu, Xinshi Zang, Martin D. F. Wong, (A paper about ICCAD 2020 Contest Problem B, Routing with Cell Movement), IEEE/ACM International Conference on Computer-Aided Design (**ICCAD**), Virtual, Nov 1 - 4, 2021. (In submission)

[C2] Bentian Jiang, Jingsong Chen, Jinwei Liu, Lixin Liu, **Fangzhou Wang**, Xiaopeng Zhang, Evangeline F.Y. Young, "CU.POKer: Placing DNNs on Wafer-Scale AI Accelerator with Optimal Kernel Sizing", The 39th IEEE/ACM International Conference on Computer-Aided Design (**ICCAD**), San Diego, CA, USA, Nov. 2-5, 2020.

[C1] Jinwei Liu, Chak-Wa Pui, **Fangzhou Wang**, Evangeline F.Y. Young, "CUGR: Detailed-Routability-Driven 3D Global Routing with Probabilistic Resource Model", ACM/IEEE Design Automation Conference (**DAC**), San Francisco, July 19-23, 2020.

SELECTED AWARDS AND HONORS

1st Place Award in CAD Contest on Routing with Cell Movement (Leader)	ICCAD	2020
1st Place Award in CAD Contest on Wafer-Scale Deep Learning Accelerator Placement	ISPD	2020
DAC Young Fellow Award	DAC	2020
1st Place Award in CAD Contest on LEF/DEF Based Open-Source Global Router	ICCAD	2019
Full Postgraduate Studentship	CUHK	2019 –
The Department of Computer Science Outstanding Student Scholarship	CityU	2019
The College of Engineering Dean's Scholarship (no more than 5 granted each year)	CityU	2019
HKSAR Government Scholarship Fund – Talent Development Scholarship	HKSAR	2019, 2020
Bronze Medal in the ACM-ICPC Asia Regional Contest (Xuzhou)	ACM	2018
Silver Medal in the ACM-ICPC Chinese Collegiate Programming Contest	ACM	2018
CityU Full Tuition Entrance Scholarship	CityU	2015 – 2019
Dean's List of College of Engineering	CityU	2015 – 2019

GRADUATE LEVEL COURSES

ENGG 5501: Foundations of Optimization
ENGG 5103: Data Mining
ENGG 5781: Matrix Analysis and Computations
IERG 5350: Reinforcement Learning
CSCI 5160: Approximation Algorithms
CSCI 5610: Advanced Data Structures

TECHNICAL SKILLS

Languages	C/C++, Python, LaTeX
Operating Systems	Linux/UNIX, MacOS
Toolkits	PyTorch