

FANGZHOU WANG

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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 Ph.D. Student, Department of Computer Science and Engineering. Advisor: Prof. Evangeline F.Y. Young	Aug. 2019 – Present
City University of Hong Kong, Kowloon, Hong Kong B.S., Computer Science (First Class Honours). (GPA 3.94/4.30, RANK 2/91) Advisor: Prof. Hong Xu, Henry Dissertation: “Faster Video Super-Resolution System”	Aug. 2015 – Jul. 2019
Tsinghua University, Beijing, P. R. China Exchange Student, Department of Computer Science and Technology.	Sep. 2016 – Jan. 2017

EXPERIENCE

City University of Hong Kong, Kowloon, Hong Kong Part-time Research Assistant, with Prof. Hong Xu, Henry Topic: A deep learning-based video super-resolution system	Sep. 2018 – Apr. 2019
City University of Hong Kong, Kowloon, Hong Kong Full-time Research Assistant, with Prof. Hong Xu, Henry Topic: A scheduling mechanism between nodes in a distributed machine learning system	Jun. 2018 – Aug. 2018
Hong Kong Exchanges and Clearing Limited, Sai Kung, Hong Kong Assistant Analyst Programmer, Cash Satellite Systems Regular Team Topic: Data processing and software testing	Aug. 2017 – May 2018
City University of Hong Kong, Kowloon, Hong Kong ACM-ICPC Team Member, Department of Computer Science Topic: Data structures and algorithm design	Aug. 2016 – Dec. 2018

PUBLICATIONS

Journal Papers

- [J2] Bentian Jiang*, Jingsong Chen*, Jinwei Liu, Lixin Liu, **Fangzhou Wang**, Xiaopeng Zhang, Evangeline F.Y. Young, “CU.POKer: Placing DNNs on WSE with Optimal Kernel Sizing and Efficient Protocol Optimization”, accepted by IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD).
- [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, “Starfish: An Efficient P&R Co-Optimization Engine with A*-based Partial Rerouting”, The 40th IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Munich, Germany, Nov 1 - 4, 2021.

- [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 – 2021
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 (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
Toolkits	PyTorch