

# 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 including global routing and detailed routing

## EDUCATION

---

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

## EXPERIENCE

---

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

## 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

- [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 <a href="#">Routing with Cell Movement</a> " (Leader)	ICCAD	2020
1st Place Award in CAD Contest on <a href="#">Wafer-Scale Deep Learning Accelerator Placement</a>	ISPD	2020
DAC Young Fellow Award	DAC	2020
1st Place Award in CAD Contest on <a href="#">LEF/DEF Based Open-Source Global Router</a>	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

---

<b>Languages</b>	C/C++, Python, L <sup>A</sup> T <sub>E</sub> X
<b>Operating Systems</b>	Linux/UNIX, MacOS
<b>Toolkits</b>	PyTorch