

EDUCATION

University of Wisconsin-Madison
Ph.D. in Computer Science;

Madison, Wisconsin, U.S.A.
Aug 2018 – Present

The Hong Kong Polytechnic University
B.Sc. (Hon), Computing; GPA: 4.00/4.00

Hong Kong
Sep 2014 – June 2018

University of Waterloo
Exchange Program; Grade: 98.25/100

Waterloo, Ontario, Canada
Jan 2017 – Apr 2017

RESEARCH EXPERIENCE

The Hong Kong Polytechnic University
Undergraduate Research Assistant, supervised by Dr. Yixin Cao

Hong Kong
Oct 2015 – Present

- **Modular decomposition:** Linear time modular decomposition algorithm refinement and implementation.
- **Unit interval deletion:** $O(k^4)$ kernelization for the unit interval deletion problem.
- **The Steiner tree problem (STP) in graphs:** Heuristic algorithm for submission to PACE 2018.

PUBLICATIONS

1. Yuping Ke, Yixin Cao, Xiating Ouyang, Wenjun Li and Jianxin Wang.
Unit interval vertex deletion: Fewer vertices are relevant.
Journal of Computer and System Sciences, 96:109–121, 2018. doi:10.1016/j.jcss.2018.01.001.

TEACHING EXPERIENCE

Fall 2018: CS 240 Discrete Mathematics

PROFESSIONAL ACTIVITIES

Author:

1. The 10th Annual Meeting of the Asian Association for Algorithms and Computation (AAAC'17), Hong Kong

Webmaster:

1. The 23rd Annual International Computing and Combinatorics Conference (COCOON'17), Hong Kong

Student Helper:

1. 3rd IEEE International Conference on Smart Computing (SMARTCOMP 2017), Hong Kong

SELECTED SCHOLARSHIPS

- Hong Kong Special Administrative Region Government Scholarship (2015, 2016, 2017)
- Hong Kong Special Administrative Region Talent Development Scholarship (2015, 2017)
- COMP Student of the Year with Outstanding Academic Performance (2015)
- Wong Tit-shing Student Exchange Scholarship (2017)

SELECTED HONORS AND AWARDS

- The Outstanding Student Award 2017, Department of Computing (2017)
- ACM-HK Chapter Collegiate Programming Contest, Second Runner-up Award (2016, 2017)
- Dean's Honors List (2015, 2016)
- National High School Mathematics Contest, First Prize (2013)

SKILLS

Programming languages: C, C++, Python, Java, PHP, Javascript

Operating system: Linux(Ubuntu), Windows

Web application: Django, HTML, CSS, Ajax

LANGUAGES

English (fluent), Mandarin (native) and Cantonese (basic)