

CONTACT

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Run Run Shaw Building
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EDUCATION

Ph.D. in Combinatorial Optimization from **University of Hong Kong** 2011-2016
Supervisor: *Prof. Wenan Zang*
Thesis: *Polyhedral methods in combinatorial optimization*

M.Sc. in Operations Research from **Ocean University of China** 2008-2011
Supervisor: *Prof. Qizhi Fang*
Thesis: *Algorithms for reliable facility location problem*

B.Sc. in Applied Mathematics from **Ocean University of China** 2004-2008

ACADEMIC EXPERIENCE

Senior Research Assistant 2015-present
University of Hong Kong

Teaching Assistant 2011-2015
University of Hong Kong
Courses taught: Matrix theory and its applications; Introduction to mathematical analysis; Linear algebra; Multivariable calculus and linear algebra; Fundamental concepts of mathematics.

Teaching Assistant 2008-2011
Ocean University of China
Courses taught: Probability theory; Probability and statistics; University mathematics

RESEARCH INTERESTS

Combinatorial Optimization

Algorithmic Game Theory focusing on core solvability

Polyhedral Combinatorics with emphasis on packing and covering in hypergraphs

Design and Analysis of Algorithms mostly arising in the above areas

PUBLICATIONS

- [1] Q. Fang, H. Xiao, and S. Zhu. Top-d rank aggregation in web meta-search engine. In *Frontiers in Algorithmics*, pages 35–44. Springer, 2010. doi:10.1007/978-3-642-14553-7_6.

- [2] H. Xiao. On kernel Mengerian orientations of line multigraphs. Under review. [arXiv:1507.06053](#).
- [3] H. Xiao. Packing feedback arc sets in reducible flow graphs. *J. Comb. Optim.* doi:10.1007/s10878-015-9922-6.
- [4] H. Xiao and W. Zang. Finding kernels in solvable orientations of claw-free Berge graphs. Working paper.

AWARDS AND HONORS

Postgraduate Scholarship <i>University of Hong Kong</i>	2011-2015
Outstanding Graduates <i>Ocean University of China</i>	2011

PROGRAMMING LANGUAGES

Wolfram Language	Proficient
Python	Intermediate
C	Basic

PROFESSIONAL MEMBERSHIPS

ACM (Association for Computing Machinery)
 SIAM (Society for Industrial and Applied Mathematics)

CONTRIBUTOR TO

GraphSuppl (a package for graph manipulation in Wolfram language)
SageMath (an open-source mathematics software system)
mcdd (a Mathematica interface to C-library cddlib)
VertexEnum (a package for polyhedron manipulation in Wolfram language)

REFERENCES

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