

## CONTACT

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## EDUCATION

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**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

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**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

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**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

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- [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.

- [2] H. Xiao. On kernel Mengerian orientations of line multigraphs. *Discrete Appl. Math.* 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 orientations of Berge claw-free graphs. Working paper.
- [5] H. Xiao and W. Zang. Packing cycles in semicomplete digraphs. Working paper.

## AWARDS AND HONORS

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

## PROGRAMMING LANGUAGES

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<b>Wolfram Language</b>	Proficient
<b>Python</b>	Intermediate
<b>C</b>	Basic
<b>MATLAB</b>	Basic

## PROFESSIONAL MEMBERSHIPS

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

## CONTRIBUTOR TO

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**GraphTheory** (a package for graph theory in Wolfram language)  
**VertexEnum** (a package for polyhedral operation in Wolfram language)  
**SAGEMATH** (an open-source mathematics software system)  
**cddml** (cddlib interface to Mathematica via MathLink)  
**cddwstp** (cddlib interface to Mathematica via Wolfram Symbolic Transfer Protocol)

## REFERENCES

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**Prof. Wenan Zang**  
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