Han XIAO

CONTACT

Address	Department of Mathematics
	Run Run Shaw Building
	University of Hong Kong
	Pokfulam
	Hong Kong
Mobile	(852) 5498-0000
	(86) 136-3217-0000
Email	xxxxxx@gmail.com

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 (part-time)   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.

[2] H. Xiao. On kernel Mengerian orientations of line multigraphs. *SIAM J. Discrete 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

Postgraduate Scholarship   2011-2015
University of Hong Kong

Outstanding Graduates   2011
Ocean University of China

PROGRAMMING LANGUAGES

Wolfram Language	Proficient
Python	Intermediate
C	Basic
MATLAB	Basic

PROFESSIONAL MEMBERSHIPS

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

CONTRIBUTOR TO

GraphTheory (a package for graph theory 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

Prof. Wenan Zang
Department of mathematics
Run Run Shaw Building
University of Hong Kong
Pokfulam
Hong Kong
xxxx@maths.hku.hk
(852) 2856-0000

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