Han XIAO

CONTACT

Address	Department of Mathematics
	Run Run Shaw Building
	University of Hong Kong
	Hong Kong
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EDUCATION

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

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

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

ACADEMIC EXPERIENCE

Senior Research Assistant   2015-present
University of Hong Kong, Hong Kong

Teaching Assistant   2011-2015
University of Hong Kong, 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, Qingdao
>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 solvable orientations of claw-free Berge 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

ACADEMIC MEMBERSHIPS

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

REFERENCES

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