IRENE LO

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EDUCATION

COLUMBIA UNIVERSITY.   New York, NY

Candidate for Ph.D. in Operations Research (IEOR)   2013 - present

Advisors: Jay Sethuraman & Jacob Leshno.

PRINCETON UNIVERSITY   Princeton, NJ

Bachelor of Arts in Mathematics.   2009 - 2013

GPA: 3.98, Summa Cum Laude, Phi Beta Kappa.

RESEARCH INTERESTS

Market design, matching markets, school choice, games on networks, graph theory.

SELECTED AWARDS AND HONORS

Fu Foundation Presidential Distinguished Fellowship *2013-2018*

Harvey Fellowship *for Christian students with a vision to impact society, 2016-2018*

George B. Covington Prize in Mathematics *for excellence in mathematics, 2012-2013*

George B. Wood Prize *for the junior with the highest academic standing after the sophomore year*

Freshman First Prize *for the sophomore with the highest academic standing after the freshman year*

International Mathematical Olympiad *Silver 2008, Bronze 2007*

International Physics Olympiad *selected to represent Australia, 2008*

PUBLICATIONS & WORKING PAPERS

MARKET DESIGN

N. Immorlica, J. Leshno, I. Lo & B. Lucier. *Information Acquisition Costs of Matching Markets,* working paper.

J. Leshno & I. Lo. *The Simple Structure of Top Trading Cycles in School Choice: A Continuum Model,* working paper.

I. Feigenbaum, Y. Kanoria, I. Lo & J. Sethuraman. *Dynamic Matching in School Choice: Efficient Seat Reallocation After Late Cancellations,* working paper.

GRAPH THEORY

I. Lo. *A Structure Theorem for (Diamond, Odd Hole)-Free Graphs,* working paper.

M. Chudnovsky, I. Lo, F. Maffray, N. Trotignon, K. Vušković. *Coloring Square-Free Berge Graphs.* `arXiv:1509.09195 [math.CO],` submitted to Journal of Combinatorial Theory, Series B.

E. Csóka, I. Lo., S. Norin, H. Wu & L. Yepremyan. *The Extremal Function for Disconnected Minors.* `arXiv:1509.01185 [math.CO],` to appear in Journal of Combinatorial Theory, Series B.

M. Chudnovsky & I. Lo. *Decomposing & Clique-Colouring (Diamond, Odd Hole)-Free Graphs,* to appear in Journal of Graph Theory.

I. Lo. *Misère Hackenbush Flowers.* `arXiv:1212.5937 [math.CO],` preprint.

INVITED TALKS

"The Simple Structure of Top Trading Cycles in School Choice: A Continuum Model"
Young Researcher Workshop on Economics and Computation, Tel Aviv University   *January 2017*
AnR Workshop: Matching in Practice & Advances in Market Design   *June 2016*

RESEARCH EXPERIENCE

MICROSOFT RESEARCH NEW ENGLAND   Cambridge, MA
 Mentor: Nicole Immorlica.   Summer 2016

TEACHING EXPERIENCE

COLUMBIA UNIVERSITY SCIENCE HONORS PROGRAM   New York, NY
 Graph Theory By Example, *Course Instructor.*   Fall 2015 - Spring 2016.

COLUMBIA UNIVERSITY DEPARTMENT OF IEOR   New York, NY
 IEOR 4407 Game Theoretic Models of Operation, *Teaching Assistant.*   Fall 2015, Fall 2016
 IEOR 4601 Pricing and Revenue Management, *Teaching Assistant.* Spring 2014