

Wei Sun

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RESEARCH INTERESTS	Game theory in revenue, supply chain, inventory, transportation management and healthcare delivery system.	
EDUCATION	Massachusetts Institute of Technology , Cambridge, Massachusetts, USA 2007-2012 Ph.D. Candidate in <i>Operations Research</i>	
	Massachusetts Institute of Technology , Cambridge, Massachusetts, USA 2006 M.S. in <i>Computational Design and Optimization</i> Thesis Title: "Price of Anarchy in an Oligopoly Market"	
	National University of Singapore , Singapore 2005 M.S. in <i>Computational Engineering</i>	
	National University of Singapore , Singapore 2001-2005 B.Eng. in <i>Electrical and Computer Engineering</i> . First Class Honors. Thesis Title: Remote Interaction Tracking System for the Mixed Reality Pacman	
TEACHING EXPERIENCE	Sloan School of Management , Cambridge, Massachusetts, USA <i>Teaching Assistant</i> TA three core courses for MBA students, Executive MBA students and Sloan Fellows. Held weekly recitations and office hours, created and graded problems sets and exams, advised student projects.	
	<ul style="list-style-type: none">• 15.060 Data, Models and Decisions, Fall 2009 (60 MBA students).• 15.734 Introduction to Operations Management, Spring 2011 (62 EMBA students).• 15.778 Management of Supply Networks for Products and Services, Summer 2011 (102 Sloan Fellows).	
PUBLICATIONS	<p>"<i>Congestion Pricing for Service Industries</i>" with G. Perakis. Under review with <i>Management Science</i>. Received 2nd Prize in INFORMS 2011 Service Science Section Best Student Paper Competition.</p> <p>"<i>Price of Anarchy in Supply Chains with Partial Positive Externalities</i>" with G. Perakis. Accepted at <i>Operations Research Letters</i>.</p> <p>"<i>Efficiency of Supply Chains with Retailer Asymmetry</i>" with G. Perakis. Under review with <i>Operations Research</i>.</p> <p>"<i>Efficiency of Service Industries with Differentiated Services and a Shared Resource</i>" with G. Perakis. Extended abstract accepted at <i>MSOM Conference</i>, June 2011.</p> <p>"<i>Congestion Pricing for Airport Efficiency</i>" with G. Perakis. Proceedings of 7th <i>Triennial Symposium on Transportation Analysis (TRISTAN)</i>, June 2010.</p> <p>"<i>Loss of Coordination in a Competitive Supply Chain with Endogenous Pricing</i>" with G. Perakis.</p>	

Extended abstract accepted at *MSOM Conference*, June 2010.

“*A Pricing Contract for Airport Congestion*” with G. Perakis. Extended abstract accepted at *MSOM Conference*, June 2009.

“*Optimal Contract Design for Joint Ventures in the Healthcare Industry*” with R. Levi, G. Perakis, C. Shi. Working paper.

“*Price of Myopia – Analysis on Greedy Behavior in Multi-Stage Games*” with G. Perakis. Working paper.

- CONFERENCES AND TALKS
- “*A Pricing Contract to Reduce Airport Congestion and Improve Airport Efficiency*”
- MSOM Conference, MIT, MA, June 2009.
 - INFORMS Annual Meeting, San Diego, CA, October 2009.
 - 10th INFORMS Annual Revenue Management and Pricing Conference, Cornell University, NY, June 2010.
 - 7th Triennial Symposium on Transportation Analysis (TRISTAN), Tromso, Norway, June 2010.
- “*Loss of Coordination in a Competitive Supply Chain with Endogenous Pricing*”
- MIT Sloan School Operations Management Seminar Series, MIT, MA, November 2009.
 - Behavioral and Quantitative Game Theory: Conference on Future Directions, Newport Beach, CA, May 2010.
 - MSOM Conference, Haifa, Israel, June 2010.
 - INFORMS Annual Meeting, Austin, TX, October 2010.
- “*Efficiency of Service Industries with Differentiated Services and a Shared Resource*”
- 11th INFORMS Annual Revenue Management and Pricing Conference, Columbia University, NY, June 2011.
 - MSOM Conference, Michigan Ross School of Business, Michigan, June 2011.
 - INFORMS Annual Meeting, Charlotte, NC, November 2011.
 - MIT Sloan School Operations Management Seminar Series, MIT, MA, November 2011.
- “*Contract Designs for Joint Ventures in the Healthcare Industry*”
- INFORMS Annual Meeting, Charlotte, NC, November 2011.

PROFESSIONAL EXPERIENCE

Credit Suisse, Singapore **January, 2007 - July, 2007**
Full-time Quantitative Analyst
Developed mathematical models for evaluating a class of exotic financial instruments and worked with clients to address portfolio restructuring needs.

PROFESSIONAL ACTIVITIES

- Student member of INFORMS, MSOM, Revenue Management and Pricing, Women in OR/MS Forum (WORMS).
- Reviewer for *Operations Research*, *Management Science*, *Naval Research Logistics* and *MSOM Conference*.

COMPUTER SKILLS

- Matlab, Python, GAMS, C/C++, Java, Mathematica.
- AMPL, OPL, CPLEX, LP-Solve, Yalmip.

CITIZENSHIP

Citizen of Singapore

REFEREES

Georgia Perakis

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