Ningyuan Chen

CONTACT INFORMATION	Yale School of Management Edward P. Evans Hall 3519, 165 Whitney Ave, New Haven, CT, 06511	Phone: +1-917-288-0791 E-mail: nc2462@columbia.edu Web: www.columbia.edu/~nc2462
EMPLOYMENT	Yale School of Management, New Haven, CT Postdoctoral Associate	Oct 2015 - 2016
EDUCATION	Columbia University, New York, NY Ph.D., Industrial Engineering and Operations Research M.S., Operations Research 2010 - 2012	
	Peking University , Beijing, China B.S., Mathematics	2006 - 2010
RESEARCH INTERESTS Revenue management and dynamic pricing; decision making under market microstructure (order books); applied probability, in particular, big-data analytics of information ranking on large networks		
JOURNAL [1] Chen, Ningyuan, and Mariana Olvera-Cravioto. "Coupling on Weighted Branching Publications" Trees." <i>Advances in Applied Probability</i> , 48.2 (2016): 499-524.		
	[2] Chen, Ningyuan, and Mariana Olvera-Crav Given Degree Distributions." <i>Stochastic S</i>	±
WORKING PAPERS	[3] Chen, Ningyuan, Steven G. Kou, and Chun Wang. "A Partitioning Algorithm for Markov Decision Processes and Its Application to Market Microstructure." <i>Management Science</i> , revised and resubmitted.	
	[4] Chen, Ningyuan, Nelly Litvak, and Mariana Olvera-Cravioto. "Ranking algorithms on Directed Configuration Networks." <i>Random Structure and Algorithms</i> , minor revision.	
	[5] Chen, Ningyuan, and Steven G. Kou. "Does Liquidity Demanders?" Working paper.	the Prohibition of Trade-throughs Hurt
	[6] Chen, Ningyuan, and Guillermo Gallego. "Do Consumers Benefit from Dynamic Pricing?" Working paper.	
	[7] Chen, Ningyuan, Guillermo Gallego, and S Dealership Markets." Work in progress.	Steven G. Kou. "Dynamic Pricing for
Conference Proceedings	[8] Chen, Ningyuan, and Mariana Olvera-Cravioto. "Efficient Simulation for Branching Linear Recursions." To appear in <i>Proceedings of the Winter Simulation Conference</i> . Winter Simulation Conference, 2015.	

[9] Chen, Ningyuan, Nelly Litvak, and Mariana Olvera-Cravioto. "PageRank in Scale-free Random Graphs." In *Proceedings of the 11th Workshop on Algorithms and Models for the Web Graph*, Beijing, China, December 2014.

TALKS Do Consumers Benefit from Dynamic Pricing?

• INFORMS Annual Meeting, Philadelphia, 2015

Does the Prohibition of Trade-through Hurt Liquidity Demanders?

• INFORMS Annual Meeting, Philadelphia, 2015

A Partitioning Algorithm for Markov Decision Processes and Its Application to Market Microstructure

- First Berlin-Singapore Workshop on Quantitative Finance & Financial Risk, Berlin, Germany, 2014
- European Economic Association Annual Congress and Econometric Society European Meeting, Toulouse, France, 2014
- INFORMS Annual Meeting, San Francisco, 2014
- INFORMS APS Conference, Istanbul, Turkey, 2015

Ranking Algorithms on Directed Configuration Networks

• INFORMS Annual Meeting, San Francisco, 2014

Directed Random Graphs with Given Degree Distributions

- INFORMS APS Conference, San Jose, Costa Rica, 2013
- INFORMS Annual Meeting, Minneapolis, 2013
- Columbia Business School DRO Student Seminar Series, New York, 2013

Efficient Simulation for Branching Linear Recursions

• INFORMS APS Conference, Istanbul, Turkey, 2015

TEACHING Columbia University, New York, NY

Teaching Assistant, responsible for weekly recitation and office hour

• IEOR E4731, Credit Risk/Credit Derivatives Summer 2015

• IEOR E4700, Introduction to Financial Engineering Fall 2010, Spring 2012

• IEOR E4404, Simulation Fall 2012

• IEOR E4706, Foundations of Financial Engineering Summer 2012

• IEOR E4500, Applications Programming for Financial Engineering Spring 2011

Substitute Instructor

• IEOR E4106, Introduction to OR: Stochastic Models February 2015

• SIEO W3600, Introduction to Probability and Statistics April 2015

HONORS AND INFORMS Financial Services Section Best Student Paper Competition, finalist, 2015 AWARDS GLOBERT AND LEVILLE 2015

Class of 1988 Doctoral Fellowship, 2015

Chinese National Scholarship (top 3%), 2007 - 2008

ACADEMIC Member of INFORMS, MSOM, APS, the Econometric Society SERVICE

Referee for Mathematical Finance

PROFESSIONAL National University of Singapore, Singapore

EXPERIENCE Visiting Scholar, Department of Mathematics Visiting Scholar, Risk Management Institute

Oct 2013 - Nov 2013 Jan 2015

Columbia Business School, New York, NY

Research Assistant, working with Professor Mark Broadie June 2011 - May 2014

- Conducted data analysis of all PGA Tour shots from 2003 to 2012
- Proposed an algorithm to rank the golfers' skill in different categories

Credit Suisse, New York, NY

Quantitative Summer Associate

June 2013 - Aug 2013

- Analyzed the strong correlation between the spot and the implied volatility movements
- Constructed and backtested a portfolio of options with different strikes to exploit the correlation

Last updated: July 1, 2016