

Wichinpong Park Sinchaisri

Ph.D. Candidate in Operations Research
The Wharton School, University of Pennsylvania
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Research Interests

Behavioral operations management, people analytics, urban operations research, revenue management and pricing, social networks and learning, computational social science.

Education

The Wharton School, University of Pennsylvania, Philadelphia, PA 2016–2021 (expected)

Ph.D. Candidate in Operations, Information, and Decisions (Operations Research)

Certificate in Social, Cognitive, and Affective Neuroscience (In Progress)

Wharton Social Impact Initiative Fellow

Penn Institute for Urban Research Affiliated Ph.D. Scholar

Advisor: Gad Allon

Massachusetts Institute of Technology, Cambridge, MA

2013–2016

S.M. Computation for Design and Optimization

2014 Kaufman Teaching Certificate Program

Thesis: “Pricing with Quality Perception: Theory and Experiment”

Advisors: Georgia Perakis, Yanchong (Karen) Zheng

Brown University, Providence, RI

2008–2012

Sc.B. Computer Engineering and Applied Mathematics-Economics

Honors: Tau Beta Pi, Omicron Delta Epsilon, Sigma Xi

Walter A. Haas School of Business, University of California, Berkeley, CA

2009

Certificate in Business for Arts, Sciences, and Engineering

Publications

WORKING PAPERS

1. “*The Impact of Behavioral and Economic Drivers on Gig Economy Workers*”, with G. Allon, M. Cohen. Under review at *Management Science*.
 - Winner, 2018 Baker Retailing Center Research Grant
 - Selected talks: Wharton-INSEAD Doctoral Consortium 2017, Penn IUR Urban Doctoral Symposium 2018, Behavioral Decision Research in Management 2018, MSOM 2018, INSEAD-Wharton Doctoral Consortium 2018, INFORMS 2018
Scheduled: POMS 2019
2. “*Markdown Pricing with Quality Perception and Consumer Optimism*”, with R. Hariss, G. Perakis, Y. Zheng. R&R at *Management Science*.
 - Honorable Mention, 2017 MIT ORC Best Student Paper

- Selected talks: MSOM 2015, INFORMS 2015, Revenue Management & Pricing Workshop 2016, Behavioral Operations Conference 2016, INFORMS 2016, POMS 2017, MSOM 2017

WORK IN PROGRESS

3. The Structural Model of Gig Economy Workers (with G. Allon, M. Cohen).
4. Urban Analytics through Community Vibrancy (with S. Jensen).
5. Decoding Consumer Learning (with K. Moon).

SELECTED TECHNICAL REPORTS

6. **W. Sinchaisri**, and T. Achakulvisut. Biases and (Dis)agreement in Fellowship Selection Process: Insights and Strategies. (2018) *Wharton People Analytics Conference*.
7. J. Cairns, J. Nguyen, **W. Sinchaisri**, and X. Zhong. Modeling with Too Much Training Data. (2010) *Research in Industrial Projects Program at the Institute for Pure and Applied Mathematics, UCLA*.

Selected Honors and Awards

Goldberg Barclay Fellowship	2018
Russell Ackoff Doctoral Student Fellowship (\$785)	2018
Baker Retailing Center Research Grant (\$5,000)	2018
2nd Place, Wharton People Analytics Conference Competition (\$3,000)	2018
Wharton Social Impact Initiative Fellowship (\$1,000)	2018
Albert M. Greenfield Intercultural Center Award	2017
Wharton Doctoral Fellowship (full funding)	2016–2021
USC Provost’s Ph.D. Fellowship (full funding)	2016
MIT Graduate Research/Teaching Fellowship (full funding)	2014–2016
Winner and Best Design, Oracle College Hire Hackathon (\$6,000)	2012
Karen T. Romers Undergraduate Teaching and Research Award (\$1,000)	2011
UCLA IPAM Research in Industrial Projects Fellowship (\$3,500)	2010
Converse Prize for General Excellence in Mathematics	2008
Fred Tuttle Prize for Excellence in Physics	2008
Tabor Book Award for Excellence in Statistics	2008
Royal Thai Undergraduate Scholarship to study at Brown University (full funding)	2008–2012

Employment

Deloitte Consulting , Boston, MA	2/2016–9/2016
<i>Data Scientist, Strategy & Operations Consultant</i>	

- Helped clients solve their complex problems by bringing a data-driven approach to executable strategy as part of *InsightStudio’s Data Science* team
- Selected clients: retail/healthcare (medication adherence study), foodservice distributor (supply chain optimization), non-profit healthcare (people analytics), beverage corporation (automation)

Goldman Sachs, New York, NY

6/2014–8/2014

Summer Analyst, Securities Strats

- Analyzed big data of stock orders and predicted front-running likelihood
- Enhanced order routing algorithm to minimize risks and costs, using joint front-running likelihood, latency, hidden liquidity, and access to dark pools
- Backtested the algorithm with historical data; \$4 million annual saving
- Created interactive visualization for the company’s proprietary electronic trading platform, using d3.js

Oracle Corporation, Redwood Shores, CA

6/2012–9/2013

Software Engineer, Fusion Financials Development

- Developed tools to assist developers, including code coverage dashboard and merge validation process optimization using JSP, XML, and SQL
- Won the 1st Prize and Best Design at an annual firm-wide Hackathon for an iOS app that helps conference attendees navigate their visits, using Java/ADF Mobile

American International Assurance, Bangkok, Thailand

12/2010–1/2011

Corporate Actuarial Analyst Intern

- Developed

Symantec Corporation, Los Angeles, CA

6/2010–8/2010

Summer Intern, Research in Industrial Projects

- Designed a variable-order Markov algorithm to test and minimize false positive rates of malware signatures and simulated test cases in MATLAB/C++

Teaching

- Teaching Assistant | The Wharton School Fall 2017
OIDD 101: Introduction to Operations, Information, and Decisions
 Undergraduate Business Fundamentals course taught by Ken Moon and Hummy Song.
- Teaching Assistant | MIT Fall 2014, 2015
1.200: Transportation Systems Analysis: Performance and Optimization
 Transportation S.M./Ph.D. core course taught by Carolina Osorio, Amadeo Odoni, and James Orlin.
 Developed class materials, led weekly recitations, designed/graded problem sets and exams.
 Overall rating: 6.3/7.0 (2014), 6.4/7.0 (2015)
- Teaching Assistant | MIT Spring 2015
15.730: Data, Models, and Decisions
 Executive MBA Core course taught by Georgia Perakis.
 Led recitations, graded problem sets, case studies, and exams, designed online experiments.

4. Teaching Assistant | Brown University Spring 2012
ENGN 900: Managerial Decision Making
 Undergraduate course taught by Barrett Hazeltine.
 Led weekly discussion sessions, graded written assignments, mentored students on final projects.
5. Teaching Assistant | Brown University Spring 2012
CSCI 40: Introduction to Scientific Computing and Problem Solving
 Undergraduate MATLAB/Python programming course taught by Maurice Herlihy.
 Led weekly lab sessions, designed/graded coding assignments, mentored students on final projects.

Selected Leadership and Service

Director of Marketing and Operations, TEDxPenn	2017–
Executive Board, Wharton Doctoral Council	2017–
Graduate Associate, Stouffer College House	2017–
Intercultural Leadership Fellow, University of Pennsylvania	2016–
Student Advisory Board, Weingarten Learning Resources Center	2016–
Mentor, Penn Graduate-Undergraduate Mentoring Program	2016–
President, Thai Students at MIT	2014–2015
IS&T Student Technology Advisory Board (ISTAB), MIT	2013–2014
College Hire Committee, Oracle Corporation	2012–2013
Consultant, Collegiate Consulting Group	2011–2012

Skills

Mathematical/Statistical Tools: R, MATLAB, Python, Mathematica, Stata, Gurobi

Programming: Java, Python, MySQL, JavaScript, HTML, CSS

Languages: English (professional), Thai (native), currently learning Mandarin and Japanese