

Wichinpong Park Sinchaisri

Ph.D. Candidate in Operations Management
The Wharton School, University of Pennsylvania
3730 Walnut St Ste 500, Philadelphia, PA 19104

swich@wharton.upenn.edu
<http://wichinpong.com>
Revised: September 11, 2019

Research Interests

Empirical operations management, behavioral operations management, gig economy, people analytics, revenue management and pricing, urban analytics, computational social science, machine learning

Education

The Wharton School, University of Pennsylvania, Philadelphia, PA 2016–2021 (expected)
Ph.D. Candidate in Operations, Information, and Decisions (Operations Management)

M.S. Candidate in Statistics

Wharton Social Impact Initiative Fellow

Penn Institute for Urban Research Affiliated Ph.D. Scholar

Advisor: Gad Allon

Stephen M. Ross School of Business, University of Michigan, Ann Arbor, MI 2019
Behavioral Operations Management Summer Institute

Massachusetts Institute of Technology, Cambridge, MA 2013–2016
S.M. Computation for Design and Optimization, GPA: 5.0/5.0

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, GPA: 3.9/4.0
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
 - Coauthors: Gad Allon, Maxime Cohen
 - Outlet: Preparing for submission at *Manufacturing and Service Operations Management*
 - Finalist: 2019 INFORMS Behavioral Operations Management Best Working Paper
 - Best Paper: 2019 Academy of Management, Operations and Supply Chain Management Division
 - 2nd Place: 2019 People Analytics Conference Research Paper Competition
 - Winner: 2018 Baker Retailing Center Research Grant

2. Markdown Pricing with Quality Perception

- Coauthors: Rim Hariss, Georgia Perakis, Yanchong Zheng
- Outlet: Major Revision at *Manufacturing and Service Operations Management*
- Honorable Mention: 2017 MIT Operations Research Center Best Student Paper

3. Urban Analytics via Community Vibrancy

- Coauthors: Shane Jensen
- Outlet: Preparing for submission at *Environment and Planning B: Urban Analytics and City Science*

WORK IN PROGRESS

4. The Structural Behavioral Model of Gig Economy Workers (with Gad Allon, Maxime Cohen, Ken Moon)
5. Learning Best Practices with Machine Learning (with Hamsa Bastani, Osbert Bastani)
6. Signaling Quality and Speed Through Staffing Decisions (with Serguei Netessine)

SELECTED TECHNICAL REPORTS

7. Baum, Alexander, Mariela Hernandez, and **Park Sinchaisri**. Tusculum Square: A Healing Gateway to Kensington. (2019) *Panorama*.
8. **Sinchaisri, Park**, and Titipat Achakulvisut. Biases and (Dis)agreement in Fellowship Selection Process: Insights and Strategies. (2018) *Wharton People Analytics Conference Student Case Competition*.
9. Cairns, Jillian, Jennifer Nguyen, **Park Sinchaisri**, and Xingxin 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

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| Finalist, INFORMS Behavioral Operations Management Best Working Paper Award | 2019 |
| Excellence in Student and Community Engagement Award, University of Pennsylvania | 2019 |
| Best Paper in Operations and Supply Chain Management, Academy of Management (\$500) | 2019 |
| Mack Institute Research Fellowship (\$4,000) | 2019 |
| George James Term Fund Award (\$500) | 2019 |
| Russell Ackoff Doctoral Student Fellowship (\$1,000) | 2019 |
| 2nd Place, Wharton People Analytics Conference Research Paper Competition (\$3,000) | 2019 |
| Goldberg Barclay Fellowship (\$500) | 2018 |
| Russell Ackoff Doctoral Student Fellowship (\$785) | 2018 |
| Baker Retailing Center Research Grant (\$5,000) | 2018 |
| 2nd Place, Wharton People Analytics Conference Case Competition (\$3,000) | 2018 |
| Wharton Social Impact Initiative Fellowship (\$4,000) | 2018–2019 |
| Honorable Mention, MIT Operations Research Center Best Student Paper | 2017 |

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| 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 |
| Overall Winner and Best Design, Oracle College Hire Hackathon (\$6,000) | 2012 |
| Sigma Xi (The Scientific Research Honor Society) | 2012 |
| Omicron Delta Epsilon (Outstanding Economics students) | 2011 |
| Karen T. Romers Undergraduate Teaching and Research Award (\$1,000) | 2011 |
| Tau Beta Pi (Top 1/8th of Engineering juniors) | 2010 |
| 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 |

Invited Presentations

Learning Best Practices with Machine Learning

2019 INFORMS Annual Conference, Seattle, WA (October 2019) (Scheduled)

Signaling Quality and Speed Through Staffing Decisions

2019 INFORMS Annual Conference, Seattle, WA (October 2019) (Scheduled)

The Structural Behavioral Model of Gig Economy Workers

2019 INFORMS Annual Conference, Seattle, WA (October 2019) (Scheduled)

2019 POMS Annual Conference, Washington, DC (May 2019)

2018 INFORMS Annual Conference, Phoenix, AZ (November 2018)

The Impact of Behavioral and Economic Drivers on Gig Economy Workers

2019 Wharton-INSEAD Doctoral Consortium, Philadelphia, PA (October 2019) (Scheduled)

2019 INFORMS Annual Conference, Seattle, WA (October 2019) (Scheduled)

2019 Academy of Management Annual Meeting, Boston, MA (August 2019) (August 2019)

2019 Service Operations SIG Meeting, MSOM Annual Conference, Singapore (June 2019)

2019 Trans-Atlantic Doctoral Conference, London Business School, London, UK (May 2019)

2019 POMS Annual Conference, Washington, DC (May 2019)

2019 Wharton People Analytics Conference, Philadelphia, PA (April 2019)

Stern School of Business, New York University, New York, NY (March 2019)

2018 INFORMS Annual Conference, Phoenix, AZ (November 2018)

2018 INSEAD-Wharton Doctoral Consortium, Fontainebleau, France (September 2018)
 2018 MSOM Annual Conference, Dallas, TX (July 2018)
 2018 Behavioral Operations Conference, Dallas, TX (June 2018)
 2018 Behavioral Decision Research in Management Conference, Boston, MA (June 2018)
 2018 Penn IUR Urban Doctoral Symposium, Philadelphia, PA (May 2018)
 2017 Wharton-INSEAD Doctoral Consortium, Philadelphia, PA (October 2017)

Biases and (Dis)agreement in Fellowship Selection Process: Insights and Strategies

2018 Wharton People Analytics Conference, Philadelphia, PA (March 2018)

Markdown Pricing with Quality Perception

2017 MSOM Annual Conference, Chapel Hill, NC (June 2017)
 2017 POMS Annual Conference, Seattle, WA (May 2017)
 2016 INFORMS Annual Conference, Nashville, TN (November 2016)
 2016 Behavioral Operations Conference, Madison, WI (July 2016)
 2016 INFORMS Revenue Management & Pricing Conference, New York, NY (June 2016)
 2015 INFORMS Annual Conference, Philadelphia, PA (November 2015)
 2015 MSOM Annual Conference, Toronto, Canada (June 2015)

Work Experience

Deloitte Consulting, Boston, MA 2/2016–9/2016

Data Scientist, Strategy & Operations Consultant

- 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 data visualization for Javascript dependencies report using d3.js and developed the company's electronic trading platform, Marquee

Oracle Corporation, Redwood Shores, CA 6/2012–9/2013

Software Engineer, Fusion Financials Development

- Leveraged financial and technical skills to efficiently enhance features for Fusion Financials Application Suites

- Developed tools to assist developers, including code coverage dashboard and merge validation process optimization using JSP, XML, and SQL
- Won the First 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
- Oracle College Hires (OCH) committee: organized on- and off-campus social events, invited speakers to share their experiences with new hires, and developed training programs/bootcamps for employees

American International Assurance, Bangkok, Thailand
Corporate Actuarial Analyst Intern

12/2010–1/2011

- Helped with valuation program enhancement and reporting
- Forecast reserves required for top policies, that generated 85% of revenue, using Prophet and Visual FoxPro
- Assisted with designing new policies based on current trends and calculating profit-maximizing models of premiums and benefits
- Wrote reinsurance agreements and English manual for future interns

Symantec Corporation, Los Angeles, CA
Summer Intern, Research in Industrial Projects

6/2010–8/2010

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

Teaching

1. Instructor/Mentor | Wharton Spring 2019, Fall 2019
OIDD 299: Judgment and Decision Making Research Immersion
 Undergraduate Elective course taught by Maurice Schweitzer.
 Supervising and mentoring undergraduate students on JDM and behavioral operations research projects.
2. Teaching Assistant | Wharton Fall 2019
OIDD 611: Quality and Productivity
 Executive MBA Core course taught by Christian Terwiesch.
3. Teaching Assistant | Wharton Spring 2019
OIDD 615: Operations Strategy
 Executive MBA Core course taught by Gad Allon. Graded and provided feedback for problem sets and final term papers.
4. Teaching Assistant | Wharton Fall 2017
OIDD 101: Introduction to Operations, Information, and Decisions
 Undergraduate Business Fundamentals course taught by Ken Moon and Hummy Song.
 Facilitated weekly recitations, designed/graded problem sets and exams.
5. 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)

6. 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.
7. 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.
8. 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

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| PhD Student Seminar Coordinator, Wharton OID | 2018–2019 |
| Advisor, TEDxPenn | 2018–2019 |
| Core Member, Penn Data Science Group | 2018 |
| Executive Board, Wharton Doctoral Council | 2017–2018 |
| Operations Management Journal Club Coordinator, Wharton OID | 2017–2018 |
| Graduate Associate, Stouffer College House | 2017– |
| Educational Council, MIT | 2017– |
| Director of Marketing, TEDxPenn | 2017–2018 |
| 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 |
| Social Chair, MIT Association of Computational Science and Engineering Students | 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 |
| President, Brown Thai Students Association | 2010–2011 |
| Writer, The Critical Review | 2008–2010 |
| Team Leader (Active Science Learning), Southeast Asian Service Leadership Network | 2009 |

Skills

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

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

Languages: English (professional), Thai (native)