

# Nichalin S. Summerfield (nee Suakkaphong), Ph.D.

Curriculum Vitae  
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Department of Operations & Information Systems  
University of Massachusetts Lowell  
One University Avenue  
Lowell, MA 01854

9 Elm St Apt 1  
Acton, MA 01720  
Cell Phone: (520) 204-7759  
[nichalin\\_summerfield@uml.edu](mailto:nichalin_summerfield@uml.edu)

## Education

- Ph.D. Management (Operations Management, minor in Economics), 2010  
Department of Management Information Systems, University of Arizona
- M.S. Management Information Systems, 2005  
Department of Management Information Systems, University of Arizona
- B.Eng. Electrical Engineering (Honors), 1998  
Sirindhorn International Institute of Technology, Thammasat University, Thailand

## Professional Experience

- 2016-Present Assistant Professor, Operations and Information Systems Department, University of Massachusetts Lowell
- 2012-2016 Lecturer, Decision and Information Sciences Department, University of Massachusetts Dartmouth
- 2010-2011 Part-time Lecturer, Management Information Systems Department, University of Arizona
- 2004-2005 Part-time Software Engineer, Phoenix Mars Lander Project, Lunar and Planetary Lab, University of Arizona
- 1998-2003 IT Consultant, Accenture, Bangkok, Thailand

## Publications

### Refereed Journal Articles in Operations & Supply Chain Management

- Summerfield, N.S.,** Dror, M., and Cohen, M.A. (2015) "City Streets Parking Enforcement Inspection Decisions: The Chinese Postman's Perspective," *European Journal of Operational Research*, 242(1):149-160.
- Summerfield, N.S.** and Dror, M. (2013) "Biform Game: Reflection as a Stochastic Programming Problem," *International Journal of Production Economics*, 142:124-129.
- Summerfield, N.S.** and Dror, M. (2012) "Stochastic Programming for Decentralized Newsvendor with Transshipment," *International Journal of Production Economics*, 137:292-303.
- Suakkaphong, N.** and Dror, M. (2011) "Managing Decentralized Inventory and Transshipment," *Top – Journal of the Spanish Society of Statistics and Operations Research*, 19(2):480-506.

## Refereed Journal Articles in Analytics & Information Systems

- Suakkaphong, N.**, Zhang, Z., and Chen, H. (2011) “Disease Named Entity Recognition Using Semi-Supervised Learning and Conditional Random Fields,” *Journal of the American Society for Information Science and Technology (JASIST)*, 62(4):727–737.
- Netcharasaeng, N., **Suakkaphong, N.**, Tungthangthum, A., and Chintrakulchai, P. (1999) “Database for Registration System at SIIT,” *Thammasat International Journal of Science and Technology*, 4(1):19-26.

## Conference Proceedings

- Dang, Y., Zhang, Y., **Suakkaphong, N.**, Larson, C., and Chen, H. (2008) “An Integrated Approach to Mapping Worldwide Bioterrorism Research Capabilities,” *IEEE International Conference on Intelligence and Security Informatics*, 212-214.
- Dang, Y., **Suakkaphong, N.**, Zhang, Y., Wakhare, R., Chen, H., and Larson, C. (2007) “Mapping Bioterrorism Agents Research Literature,” *Advances in Disease Surveillance*, 4:156.

## Work-in-process

- A Data Analytics Approach for Studying Patient No-Shows, with A. Dag, N. Ajaonkar, R. Balan, and A. Oztekin (Status: Submitted to JORS)
- Expected Value of Perfect Information of Demand in Propane Distribution Problem, with M. Dror (Status: Writing, Target: EJOR)
- Leverage Data Analytics and Game Theory to Study Complex Urban Transportation, with D. Chen and A. Deokar (Status: On-going)
- MILP for Off-shore Helicopter Routing with Asymmetric Demands, with M. Dror. (Status: On-going)
- Submission to 2018 MSOM Data Driven Research Challenge, with A. Deokar and B. Lee (Status: On-going)
- The CARE Act: Processes Affecting the Community/Caregiver Perspective of Caring for Older Adults, with M. Knight, K. Evans, A. Kronrod, B. Lee, and L. Abdallah1 (Status: Planning)
- Task Prioritization in Large Retail Store (Status: Planning)

## Conference Participation

### Refereed Conference Papers Presented

- 2011 Stochastic Programming Framework for Decentralized Inventory with Transshipment  
MSOM Society Annual Conference, Ann Arbor, Michigan, June 26-28
- 2009 Managing Decentralized Distribution: Insights and Incentives for Collaboration

International Conference on Game Theory (20th Summer Festival on Game Theory), Stony Brook, New York, July 13-17

### Non-refereed Conference Papers Presented

“Expected Value of Perfect Information of Demand in Propane Distribution Problem”

2017 INFORMS Annual Meeting, Houston, TX, October 22-25

“City Streets Parking Enforcement Inspection Decisions: The Chinese Postman’s Perspective”

2014 INFORMS Annual Meeting, San Francisco, CA, November 9-12

2012 INFORMS Annual Meeting, Phoenix, AZ, October 14-17 (Presented by M. Dror)

“Biform Game: Reflection as a Stochastic Programming Problem”

2011 INFORMS Annual Meeting, Charlotte, NC, November 13-16

2011 MSOM Annual Conference, Ann Arbor, MI, June 26-28 (Poster session)

2011 Public Economic Theory Conference, Bloomington, IN, June 2-4 (Presented by M. Dror)

“Stochastic Programming Framework for Decentralized Inventory with Transshipment”

2011 INFORMS Annual Meeting, Charlotte, NC, November 13-16

“Managing Decentralized Distribution: Insights and Incentives for Collaboration”

2009 INFORMS Annual Meeting, San Diego, CA, October 11-14

2009 DOMinant Workshop on Inventory Routing and Fleet-Size-and-Mix Problems, Molde, Norway, September 20-22 (Presented by M. Dror)

2009 INFORMS Western Regional Conference, Phoenix, AZ, April 23-24

### AWARDS

2016 Thomas J. Higginson Awards for Excellence in Teaching, Charlton College of Business, UMass Dartmouth

2015 Research Award, Charlton College of Business, UMass Dartmouth

2015 Provost’s Best Practices Awards for Innovative Use of Technology, UMass Dartmouth

2009 James F. LaSalle Award for Teaching Excellence, U of Arizona

2009 Dean’s Research Award, Eller College of Management, U of Arizona

2009 Dean’s Teaching Award, Eller College of Management, U of Arizona

2009 GPSC Travel Grant, U of Arizona (Intl. conf. on Game Theory, Stony Brook, NY)

2009 GPSC Travel Grant, U of Arizona (INFORMS 2009, San Diego, CA)

2008 Dean’s Teaching Award, Eller College of Management, U of Arizona

2005-2010 Graduate Research/Teaching Assistantship, U of Arizona

### Grant

2017-2019 University of Massachusetts Lowell \$10,000 Seed Grant, “Leverage Data Analytics and Game Theory to Study Complex Urban Transportation” (PI: D. Chen, Co-PI: A. Deokar and N. Summerfield)

## Teaching Experience

### Assistant Professor, Operations Management, University of Massachusetts Lowell

POMS.3010 Operations Management (fall 2016-Spring 2018)  
POMS.6120 Statistics for Predictive Analytics (fall 2016, fall 2017)

### Lecturer, Operations Management, University of Massachusetts Dartmouth

Business Statistics (fall 2012-spring 2016)  
Business Statistics – Fully Online (summer 2014-spring 2016)  
Quantitative Business Analysis (fall 2012-fall 2015)  
Applied Decision Models (fall 2012-spring 2014)  
Business Logistics (spring 2015-spring 2016)

### Instructor, Management Information Systems, University of Arizona

Operations Management – for MS MIS (fall 2011)  
Project Management – for MS MIS (fall 2011)  
Business Intensive II – OM for Accelerated MBA (summer 2011)  
Production and Operations Management I (fall 2010, spring 2011)  
Basic Operations Management (winter 2008)  
Using and Managing Information Systems (summer II & winter 2007)

### Teaching Assistant, University of Arizona

Managing for Quality Improvement (2007-2010)  
Production and Operations Management I (2007-2009)  
Production and Operations Management II (2009)  
Knowledge Management (2007)

## Research Experience

2005-2007      Research Associate, Artificial Intelligence Lab, University of Arizona  
Advisor: Hsinchun Chen  
Built text mining research platform using Java, SQL, and Shell scripts. Conducted the Text Mining research by combining conditional random fields (CRFs), a state-of-the-art sequence-labeling algorithm, with two semi-supervised learning techniques, bootstrapping and feature sampling, to recognize disease names from biomedical literature.

## Professional Service

### To University

Member, Teaching Excellence Committee, Manning School of Business, UMass Lowell, 2017-2018  
Member, Undergraduate Program & Standards Committee, Manning School of Business, UMass Lowell, 2016-2018

Co-advisor, OIS Club, Manning School of Business, UMass Lowell, 2016-2017  
Member, Research Advancement Committee, Manning School of Business, UMass Lowell, 2016  
Member, Departmental Curriculum Committee, DIS Department, UMass Dartmouth, 2012-2016  
Member, MIS Lecturer Search Committees, UMass Dartmouth, 2014-2015  
Founding Faculty Advisor, Management Consulting Club, UMass Dartmouth, 2013-2015  
Member, AACSB Participants Committee, Charlton College of Business, 2013-2015  
Course Coordinator of POM333, Charlton College of Business, UMass Dartmouth, 2012-2015  
Member, Math & Business Center Director Search Committees, UMass Dartmouth, 2013-2014  
Volunteer, Academic Advising Center, UMass Dartmouth, 2013-2014  
Member, Research Committee, Charlton College of Business, UMass Dartmouth, 2012-2013

### **Peer Review**

Manuscript Reviewer, Manufacturing & Service Operations Management (M&SOM)  
Manuscript Reviewer, European Journal of Operational Research (EJOR)  
Manuscript Reviewer, International Journal of Production Economics (IJPE)  
Manuscript Reviewer, International Journal of Production Research (IJPR)  
Manuscript Reviewer, Journal of the Operational Research Society (JORS)  
Manuscript Reviewer, Decision Support Systems (DSS)  
Ad Hoc Conference Reviewer, 2011 Americas Conference on Information Systems (AMCIS 2011)  
Ad Hoc Conference Reviewer, 2011 International Conference on Information Systems (ICIS 2011)  
Ad Hoc Conference Reviewer, 2010 International Conference on Electronic Business (ICEB 2010)

### **Professional Associations**

Institute for Operations Research and the Management Sciences (INFORMS)  
Manufacturing & Service Operations Management (M&SOM)  
Production and Operations Management Society (POMS)  
Decision Sciences Institute (DSI)

### **Related Technical Skills**

Programming Language: Python, Java, SQL, Visual Basic, C, html  
Software/Tools: CPLEX, R, Mathematica, Latex, MS Office, Blackboard

### **Citizenship**

U.S. citizen

### **Languages**

English: Fluent  
Thai: Native language

### **References**

Available upon request.