

YUYUE (PETER) SONG

Associate Professor, Operations Management

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Education

- **Ph.D.** (Operations Research) 2001
National University of Singapore, Singapore
Dissertation: *Lot Sizing Production Models and Inventory Routing Problems*
- **M.Sc.** (Math) 1992
NanKai University, China
- **B.Sc.** (Math) 1989
QuFu Normal University, China

Research Interests

- Supply chain coordination
- Dynamic pricing and inventory control
- Game theory applications in operations management

Professional Experience

- **Associate Professor**, Sept. 2009 - Present
Faculty of Business Administration, Memorial University of Newfoundland
- **Assistant Professor**, Aug. 2006 - Aug. 2009
Faculty of Business Administration, Memorial University of Newfoundland
- **Postdoctoral Fellow**, April 2003 - June 2006
Dessautel Faculty of Management, McGill University, Canada
- **Research Fellow**, July 2001 - March 2003
The Logistics Institute-Asia Pacific (TLI-AP), National University of Singapore
(I was involved in three industrial projects and one has been commercialized.)

- **Senior Engineer**, Oct. 1999 - June 2001
Kent Ridge Digital Labs, National University of Singapore
- **Lecturer**, June 1992 - June 1996
Applied Mathematics Department, Dalian University of Technology, China

Research Grants and Awards

- **SSHRC Grant**, April 2008 - March 2012, \$78,000
The research program is entitled “*Lead-Time Demand Characterization in Price-Setting Supply Chains*” and I am the *sole applicant* for this national research grant.
- **Dean’s Research Award**, 2007 - 2008
Faculty of Business Administration, Memorial University of Newfoundland
- **NSERC Grant**, April 2007 - March 2014, \$85,000
The research program is entitled “*Design and Performance Analysis of Dynamic Supply Chain Contracts*” and I am the *sole applicant* for this national research grant.
- **SSHRC Travel Grant**, October 2006, \$1400
- **Startup Grant** for new faculty member, Aug. 2006 – Aug. 2007, \$3000
- **Postdoctoral Fellowship**, April 2003 - April 2006
Dessautel Faculty of Management, McGill University, Canada
- **Research Scholarship**, June 1996 – Oct. 1999
National University of Singapore, Singapore
- **Guang Hua Scholarship**, June 1990 - June 1991
Nankai University, China

Referred Journal Publications

- Ray, S., **Y. Song** and M. Verma. 2010. Comparison of two periodic review models for stochastic and price-sensitive demand environment. **International Journal of Production Economics** 128, 209-222.
- **Song, Y.**, S. Ray, and T. Boyaci. 2009. Optimal dynamic joint inventory-pricing control for multiplicative demand with fixed setup costs and lost sales. **Operations Research** 57(1), 245-250.
- **Song, Y.**, S. Ray, and S. Li. 2008. Structural properties of Buy-Back contracts for price-setting newsvendors. **Manufacturing & Service Operations Management** 10(1), 1-18.
- Chen, F., S. Ray, and **Y. Song**. 2006. Optimal pricing and inventory control policy in periodic-review systems with fixed ordering cost and lost sales. **Naval Research Logistics** 53(2), 117-136.

- Ray, S., S. Li, and **Y. Song**. 2005. Tailored supply chain decision-making under price-sensitive stochastic demand and delivery uncertainty. **Management Science** 51(2), 1873-1891.
- **Song, Y.** and G.H. Chan. 2005. Single-item lot-sizing problems with backlogging on a single machine at a finite production rate. **European Journal of Operational Research** 161(1), 191-202.
- **Song, Y.** and H.C. Lau. 2004. A periodic-review inventory model with application to the continuous-review obsolescence problem. **European Journal of Operational Research** 159(1), 110-120.
- Chan, G.H., and **Y. Song**. 2003. A dynamic analysis of the single item periodic stochastic inventory systems with order capacity. **European Journal of Operational Research** 146(3), 529-542.
- Chan, G.H., and **Y. Song**. 2001. Rotation cycle scheduling for the multi-item production systems. **European Journal of Operational Research** 135(2), 361-372.

Working Papers

- **Song, Y.,** and Y. Wang. 2012. Periodic review inventory systems with both fixed order cost and random yield.
- **Song, Y.** 2012. Impact of asymmetric inventory information on supply chain decision making.

Conference Presentation

- **Song, Y.** 2012. Impact of asymmetric inventory information on supply chain decision making. INFORMS-BEIJING international meeting, Beijing China.
- **Song, Y.** 2010. Impact of asymmetric inventory information on supply chain decision making. POMS annual conference, Reno USA.
- **Song, Y.** and Y. Wang. 2009. Structural results for periodic review inventory control systems with both positive fixed order cost and random yield. INFORMS annual conference, San diego, CA , USA.
- **Song, Y.** and Y. Wang. 2009. Periodic review inventory control with positive fixed order cost and random yield. CORS/ INFORMS joint conference, Toronto, Canada
- **Song, Y.** S. Ray, and M. Verna. 2007. Optimal selection of the review cycle and the service level for a single item stochastic system. Invited presentation at INFORMS (Institute for Operations Research and the Management Sciences), Seattle, USA
- **Song, Y.,** T. Boyaci, and S. Ray. 2006. Optimal dynamic joint pricing and inventory control in presence of multiplicative price-sensitive stochastic demand and fixed setup costs. Invited Session, INFORMS Annual Conference, Pittsburg, Pennsylvania, USA.

- **Song, Y.**, T. Boyaci, and S. Ray. 2006. Optimal dynamic joint pricing and inventory control in presence of multiplicative price-sensitive stochastic demand and fixed setup costs. Invited Session, CORS National Conference, Montreal, Quebec, Canada.
- B. Tamer, S. Ray, and **Y. Song**. 2005. Value of decision flexibilities and information updating in a two-echelon supply chain with price sensitive stochastic demand. Invited Session, CORS National Conference, Halifax.
- **Song, Y.** and G.H. Chan. 2004. Single item lot-sizing problems on a single machine at a finite production rate. Optimization Days, Montreal, Canada.

Teaching Interests

Supply Chain Management; Production and Operations Management; Operations Research; Optimization; Management Science; Stochastic Operations Research Models; Decision Analysis; Stochastic Processes; Logistics Management

Teaching Experience

- 2006 - Present, *Operations Management*
Core Course, Undergraduate BCom and BBA Programs
Faculty of Business of Administration, Memorial University of Newfoundland
- 2008 - Present, *Supply Chain: Models and Management*
Core Course, Ph.D. Program in Information and Operations Management
Faculty of Business of Administration, Memorial University of Newfoundland
- 2006 - 2007, *Management Science*
Core Course, Undergraduate BCom and BBA Programs
Faculty of Business of Administration, Memorial University of Newfoundland
- 2003 - 2006, *Operations Management*
Core Course, Undergraduate BCom Program
Dessautels Faculty of Management, McGill University

Professional Service Experience

- 2007 – Present, **Editorial Board Member**, *International Journal of Information Systems and Supply Chain Management*
- 2012 - 2013, **Referee for NSERC agency**

- 2009 - 2010, **Organization Committee**, CORS annual conference 2011 in St. John's, NL
- 2009 - 2010, **Referee for NSERC agency**
- 2003 - Present, **Member of INFORMS**
Institute for Operations Research and Management Science (INFORMS)
- **Regular reviewer** for the following international journals:
 - *European Journal of Operational Research*
 - *Management Science*
 - *Operations Research*
 - *Naval Research Logistics*
 - *IEEE Transactions on Automation Science and Engineering*
 - *International Journal of Information Systems and Supply Chain Management*
 - *Manufacturing and Service Operations Management*
 - *International Journal of Inventory Research*
- **Reviewer for a few international conferences** such as *International Conference on Operations and Supply Chain Management* held in Bali, December 2005 and 36th *HAWAII International Conference on System Sciences (HICSS-36)* etc.
- **Session chair for a few conferences** such as *Optimization Days 2004* in Montreal and *CORS National Conference 2006*

University/Faculty Service:

- 2012-2013, **P&T Committee**
Faculty of Business of Administration, Memorial University of Newfoundland
- 2012 - 2013, **Ph.D. Comprehensive Examination Committee**
- Faculty of Business of Administration, Memorial University of Newfoundland
- 2010-2011, **Search Committee** for the Operations Management/Operations Research Faculty Position,
Faculty of Business of Administration, Memorial University of Newfoundland
- Spring 2010, Searching a post doctoral fellow
- 2009 - 2010, **Ph.D. Comprehensive Examination Committee**
- 2009 - 2010, **Post Doctoral Fellow Supervision** (XU Jianjun)
Faculty of Business of Administration, Memorial University of Newfoundland
- 2008 - 2009, **Ph.D. Comprehensive Examination Committee**
- 2008 - 2009, **Search Committee** for the Operations Management Faculty Position
Faculty of Business of Administration, Memorial University of Newfoundland

- 2008 - 2009, **Research Committee**, Faculty of Business of Administration, Memorial University of Newfoundland
- Spring 2008, Searching a post doctoral fellow
- Winter 2008, Interviewing the Associate Dean of Research candidate for a half-hour
- 2006 - 2007, Participating in the new faculty recruitment process including having lunch with one candidate and a half-hour interview with another candidate
- 2006 - Present, Marking work term reports for our Commerce Co-op Program (2 - 5 reports for each work term)