

# SULEYMAN DEMIREL

Ross School of Business  
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**EDUCATION**      **Ph.D., Operations Management**      2004 – Present  
Department of Operations Management and Science  
Ross School of Business, University of Michigan, Ann Arbor

**B.S., Industrial Engineering**      2000 – 2004  
Bilkent University, Ankara-Turkey

**RESEARCH**      **Research Interests**

- Inventory and supply chain management, supply chain disruptions management, yield and capacity uncertainty, economics of healthcare
- Cooperative and non-cooperative game theory, stochastic dynamic programming, large-scale optimization

**Referred Journal Publications**

- Rashid, K., S. Demirel, B. Couet. 2011. Gas-lift Optimization with Choke Control using a Mixed-Integer Nonlinear Formulation. *Industrial & Engineering Chemistry Research*. **50**(5) 2971–2980.

**Doctoral Research**

- Demirel, S., R. Kapuscinski, C. Chen-Ritzo. 2011. Strategic Behavior of Suppliers in the Face of Production Disruptions. *Submitted to Management Science*.
- Demirel, S., I. Duenyas, R. Kapuscinski. 2011. Production and Inventory Control for a Make-to-Stock / Calibrate-to-Order System with Dedicated and Shared Resources. *In preparation for submission to Operations Research in January 2012*.

**Working Papers**

- Demirel, S., I. Duenyas, R. Kapuscinski. 2011. Incentives for Vendor-Managed Inventory under Retail Sales Effort and Brand Competition.

**Invited Presentations**

- Strategic Behavior of Suppliers in the Face of Production Disruption. To be presented at **INFORMS 2011**.
- Production and Inventory Control for a Two-Stage Production System with Uncertain Capacities. Presented at **INFORMS 2010** and **MSOM 2011**.
- Supply Contracts in the Face of Production Disruptions. Presented at **Bilkent University in 2007**, **INFORMS 2007** and **MSOM 2008**.

**Patents**

- Large Scale Production Optimization using a Mixed-Integer Non-linear Programming Approach, with Kashif Rashid and Benoit Couet. **Received provisional patent. Full patent application pending approval.**

## TEACHING

### Teaching Interests

- Operations Management, Business Statistics, Supply Chain Management at undergraduate and graduate level
- Inventory and supply chain management, game theory, and dynamic programming at doctoral level

### Teaching Experience at Ross School of Business, University of Michigan

**Instructor**, Operations Management (undergraduate) Winter 2008

- Teaching evaluation: **4.94/5.00** for a section of 73 students, and **4.92/5.00** for a section of 35 (non-business) students, as elective
- Mixture of MBA-style case discussions and lectures
- Led a total of 18 student teams on term projects in local businesses

**Instructor**, Business Statistics & Management Science Winter 2012

**Graduate Teacher Certificate**, University of Michigan April 2009

- Granted to fewer than 50 recipients each year upon completion of instructional program and demonstration of teaching proficiency

**Teaching Assistant** 2006-2011

- Manufacturing & Supply Operations (**MBA-level**), 2007, 2009 and 2011
- Inventory and Supply Chain Management (**PhD-level**), 2008 and 2010
- Business Statistics & Management Science (**undergraduate**), 2006 and 2007
- Supply Chain Analytics (**Master-level**), 2009

**Course Material Development**, Winter 2009

- Created a spreadsheet application for an Executive MBA course, used for teaching inventory management and simulation

**Calculus Tutor**, Bilkent University, Ankara-Turkey 2003-2004

## INDUSTRY EXPERIENCE

**Intern**, Schlumberger-Doll Research, Cambridge, MA Summer 2008

- Worked on oil production optimization

**Developer**, Tauber Institute for Global Operations, Ross School of Business 2009 – Present

- Developed a usable spreadsheet application that matches industrial projects and MBA students based on mutual preferences and project related constraints
- Assisted in the development of a website that enables companies and students submit their preferences

**Part Time**, Turk Tractor Company, Ankara-Turkey 2003-2004

- Simulated the main assembly line with recommendations for line design and intermediate buffer sizes

**Intern**, TOBB - Union of Turkish Chambers of Commerce Summer 2003

- Analyzed world economic indicators

**Intern**, ASELSAN - Military Electronics Company, Ankara-Turkey Summer 2002

- Worked on *Frequency Assignment Problem* using integer programming

- HONORS AND AWARDS**
- Fellowships**
- Charles H. Gessner Doctoral Fellowship 2008, 2011
  - Richter Fellowship 2010
  - University of Michigan, Ann Arbor 2004–2009
  - Bilkent University, Ankara, Turkey 2000–2004
- Honors**
- Dean’s List of Distinguished Students, all semesters 2000–2004
- Doctoral Colloquiums**
- **CSCMP** Annual Supply Chain and Logistics Doctoral Symposium 2007
  - **CIBER** Doctoral Workshop in International Operations Management 2007
- Awards**
- Second Prize in National Mathematical Olympiad 1997 and 1999
- MEMBERSHIP AND SERVICE**
- Membership**
- Member of INFORMS and MSOM Society 2005 – Present
- Service**
- Webmaster of the **MSOM Society** 2011 – Present
  - Departmental webmaster at the Ross School of Business 2006 – 2007
- COMPUTER SKILLS**
- Programming** : C++, Matlab, VBA, Bash scripting
- Software** : Ampl, Glpsol, Arena
- Operating Systems** : Linux, Cygwin, Windows
- REFERENCES**
- Faculty at the Stephen M. Ross School of Business,**  
701 Tappan Street, Ann Arbor, MI 48109, USA
- **Roman Kapuscinski**, Professor of Operations and Management Science;  
Goff Smith Co-Director, Tauber Institute for Global Operations  
**Phone:** +1 (734) 764-9501, **E-mail:** kapuscin@umich.edu
  - **Izak Duenyas**, John Psarouthakis Professor of Manufacturing Management;  
Professor of Operations and Management Science; Professor of Industrial and  
Operations Engineering; Chair of Operations and Management Science  
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  - **Owen Q. Wu**, Assistant Professor of Operations and Management Science  
**Phone:** +1 (734) 936-2674, **E-mail:** owenwu@umich.edu
- Project Supervisor at Schlumberger-Doll Research,**  
1 Hampshire Street, Cambridge, MA 02139, USA
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