

# SAMMI YU TANG

John M. Business School  
Washington University  
Campus Box 1133  
One Brookings Drive  
St. Louis, MO 63130-4899

7885 Scody Drive  
St. Louis, MO 63143  
Phone: (510) 529-9598  
Email: [ytang@wustl.edu](mailto:ytang@wustl.edu)  
<http://students.olin.wustl.edu/~tangy>

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## EDUCATION

- 2005 – Present    **John M. Olin Business School, Washington University, St. Louis, MO**  
Ph.D. in Operations Management; expected May 2008  
Dissertation Title: “*Essays on Managing Supply Uncertainty: Diversification Strategies, Contingency Plans and Competitive Effects*”  
Committee Chair: Prof. Panos Kouvelis
- 2003 – 2005      **John M. Olin Business School, Washington University, St. Louis, MO**  
M.S. in Business Administration
- 2002 – 2003      **Department of Economics, University of Minnesota, Minneapolis, MN**  
Admitted to the Ph.D program and completed the 1<sup>st</sup> year study
- 1997 – 2001      **Peking University, Beijing, China**  
B.S. in Geophysics  
B.S. in Economics

## RESEARCH INTERESTS

My research interests are in the areas of supply chain management and the economics of operational processes. My dissertation research focuses on managing supply uncertainties, specifically supply lead-time and yield uncertainty. I am interested in evaluating the effectiveness of various contingency actions such as expediting and responsive pricing on expected profit and risk management in environments prone to supply disruptions. Methodologically my research marries operational models depicting relevant tradeoffs and operational complexities with game theory tools to understand strategic behavior of supply chain actors in decentralized decision making and under competitive environments. In the future, I am interested in research in the interfaces of OM and economics, OM and finance, and more traditional inventory and logistics models building on newsvendor network theory and applications.

## PAPERS UNDER REVIEW

- Competition and Dual Sourcing in the Presence of Supply Uncertainty, with Panos Kouvelis (Job talk paper, submitted to *Management Science*)
- On the Optimal Expediting Policy for Supply Systems with Uncertain Lead-times, with Panos Kouvelis (Submitted to *Production and Operations Management*)
- On the Benefits of Operational Flexibility in a Distribution Network with Transshipment, with Dennis Z. Yu, Haojun Shen and Julie Niederhoff (Submitted to *Decision Sciences Journal*)

## WORK IN PROGRESS

Operational Recourse and Responsive Pricing under Supply and Demand Uncertainty, (In progress)

## AWARDS AND HONORS

Hubert C. Moog Scholar, Washington University, 2005, 2007  
Doctoral Fellowship, Washington University, 2003-2008  
Boeing Center for Technology, Information & Manufacturing Fellowship, 2004-2008  
INFORMS Future Academician Colloquium, 2007  
Fellowship, University of Minnesota, 2002  
Wu Si Scholarship, Peking University, 2000  
Social Work Award, Peking University, 1999  
Outstanding College Student Award, Peking University, 1998

## TEACHING EXPERIENCE

**Co-Instructor**, John M. Olin Business School, Washington University

- Managing Global Business Process Outsourcing for Competitive Advantage, **MBA (2005 – 2007)**, with Prof. Panos Kouvelis
- Numerical Methods & Optimization in Finance, **MS Finance (2006, 2007)**, with Prof. Panos Kouvelis

**Guest Speaker**, John M. Olin Business School, Washington University

Invited as a guest instructor for 2 – 3 hour sessions in courses for various audiences (MBA and EMBA)

- Value of Flexibility and Real Options: The Applichem Case  
In EMBA course International Operations, October, 2005; in PMBA course Advanced Operations Strategy, November, 2005; October, 2006
- The Opportunities and Challenges of RFID  
In Olin-Fudan EMBA course Global Supply Chain Management, May, 2005; July 2006
- Debriefing the Supply Chain Game  
In EMBA course International Operations, October, 2005; October, 2006
- Risk Pooling, Operational Flexibility and Capacity Planning  
In PMBA course Advanced Operations Strategy, November, 2005
- Business Process Simulation using EXTEND: The Manzana Case  
In EMBA course Managing Operations, April 2007

**Teaching Assistant**, John M. Olin Business School, Washington University

Served as the lead-TA for variety of courses and audiences. Coordinated and administrated experiential games and computer simulations such as Beer Game, Littlefield Technologies Simulation, Global Supply Chain Management Simulation, JIT Simulation, the Supply Chain Game from Responsive Learning Technologies, and the Outsourcing Game from Emeraldwise. LLC.

- **Undergraduate:** Operations Management
- **MBA:** Operations Management (core), Information Technology and Supply Chain Management (elective), Advanced Operations Strategy (elective)
- **Executive MBA:** Advanced Topics in Operations, International Operations, Managing Operations

## CONFERENCE PRESENTATIONS

- Competitive Implications for Supply Systems with Supply Uncertainty.  
MSOM Annual Conference in Beijing, China, June 2007
- Competition and Dual Sourcing in the Presence of Supply Uncertainty.  
DSI Annual Conference in Phoenix, November 2007  
INFORMS Annual Meeting in Seattle, November 2007
- On the Optimal Expediting Policy for Supply Systems with Uncertain Lead-times.  
POMS Annual Meeting in Dallas, May 2007  
INFORMS Annual Meeting in Pittsburgh, November 2006
- On Benefits of Operational Flexibility in a Distribution Network with Transshipment.  
INFORMS Annual Meeting in San Francisco, November 2005

## PROFESSIONAL ACTIVITIES

- Referee for *Operations Research*, *Production and Operations Management*, *International Journal of Operational Research*
- Session Chair of INFORMS, DSI Annual Meeting
- Member of INFORMS, DSI and POMS

## RELECTED GRADUATE COURSEWORK

- Mathematics of Operations Research
- Optimization in Function Space
- Microeconomics Theory
- Real Analysis
- Game Theory
- Stochastic Foundations for Finance
- Research Topics in Revenue Management
- Stochastic Models for Production and Service Systems
- Advanced Models in Operations Strategy & Technology Management
- Random Variables & Stochastic Processes I, II
- Dynamic Programming and Optimal Control
- Macroeconomics Theory
- Economics of Industrial Organization
- Introduction to Econometrics
- Selected Topics in Dynamic Pricing
- Inventory & Supply Chain Management: Theory and Research
- Managing Flexibility & Risk in Global Supply Chains

## REFERENCES

### **Panos Kouvelis**

Emerson Distinguished Professor of Operations and Manufacturing Management  
Director of the Boeing Center for Technology, Information, and Manufacturing  
John M. Olin Business School, Campus Box 1133, Washington University  
Phone: (314) 935-4604  
Email: [Kouvelis@wustl.edu](mailto:Kouvelis@wustl.edu)

### **Lingxiu Dong**

Associate Professor of Operations and Manufacturing Management  
John M. Olin Business School, Campus Box 1133, Washington University  
Phone: (314) 935-6336  
Email: [Dong@wustl.edu](mailto:Dong@wustl.edu)

### **Sergio Chayet**

Assistant Professor of Operations and Manufacturing Management  
John M. Olin Business School, Campus Box 1133, Washington University  
Phone: (314) 935-6769  
Email: [Chayet@wustl.edu](mailto:Chayet@wustl.edu)