

YINGJIE LAN

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RESEARCH INTERESTS

- Revenue management
- Order promising and fulfillment
- Perishable inventory management
- Robust optimization; integer and linear programming

EDUCATION

- Ph.D. (expected in 2008) – R.H. Smith School of Business, University of Maryland, College Park, MD
Thesis title: Robust Revenue Management with Limited Information: Theory and Experiments
Advisors: Michael Ball and Itir Karaesmen *GPA: 4.0/4.0*
- MS Comp. Sci. (2003) – College of William & Mary, Williamsburg, VA
Thesis title: The Logistic-Exponential Survival Distribution
Advisors: Larry Leemis, Gianfranco Ciardo *GPA: 4.0/4.0*
- MS Management (2000) – Guanghua School of Management, Beijing University, Beijing, China
Thesis title: Business Simulation for Competitive Managerial Decision Making
Advisor: Qiwen Wang, Department of Management Science and Engineering
- BA Economics (1997) – Guanghua School of Management, Beijing University, Beijing, China

PUBLICATIONS AND WORKING PAPERS

- **Y. Lan**, M. Ball and I. Karaesmen (2008), “Robust Revenue Management: Overbooking and Fare-Class Allocation with Limited Information,” to appear in *INFORMS MSOM 2008 SIG Conference on Service Management*, June 7, 2008, Washington, DC.
- **Y. Lan**, H. Gao, M. Ball and I. Karaesmen, (Jan. 2008) “Revenue Management with Limited Demand Information,” to appear in *Management Science*.
- **Y. Lan**, M. Ball and I. Karaesmen, (Dec. 2007) “Overbooking and Fare-Class Allocation with Limited Information,” submitted to: *Manufacturing and Service Operations Management (M&SOM)*.
- **Y. Lan**, and L. Leemis, (Jan. 2008) “The Logistic-Exponential Survival Distribution,” *Naval Research Logistics (NRL)* volume 55, number 3, pp. 252-264.
- **Y. Lan**, and S. Chen, (May 2007) “Some Minimum k-Geodetically Connected Graphs,” target journal: *Networks*.
- **Y. Lan**, H. Gao, M. Ball and I. Karaesmen (2006), “Booking Control Policies for Revenue Management Using Limited Demand Information,” *INFORMS MSOM 2006 Conference Proceedings*, June 19-20, Georgia Institute of Technology, Atlanta, Georgia.
- G. Ciardo, and **Y. Lan**, (Sep. 2003) “Faster Discrete-Event Simulation Through Structural Caching,” *Conference Proceedings, Sixth Int. Workshop on Performability Modeling of Computer and Communication Systems (PMCCS-6)*, September 5-7, Monticello, Illinois.

TEACHING EXPERIENCE

- Instructor, Fall 2007 (Teaching Evaluation: 3.2 / 4.0)
Robert H. Smith School of Business, University of Maryland, College Park, Maryland
 - BMGT 332 – Operations Research for Management Decisions
- Teaching Assistant, Fall 2004
Robert H. Smith School of Business, University of Maryland, College Park, Maryland

- BMGT 833 – Integer Programming
- Teaching Assistant, Fall 2001 – Spring 2003
College of William & Mary, Williamsburg, Virginia
 - MATH 111 – Calculus I
 - MATH 112 – Calculus II
 - MATH 302 – Ordinary Differential Equations

RESEARCH EXPERIENCE

- Research Assistant, Fall 2003 – Present
Robert H. Smith School of Business, University of Maryland
 - Revenue management and due date management in supply chains, using robust optimization and the cross-entropy method
 - Perishable inventory management in services and supply chains.
- Research Assistant, Summer 2003
Department of Computer Science, College of William & Mary
 - Large-scale simulations using structural caching schemes.
- Research Assistant, Fall 1998 – Fall 1999
Guanghua School of Management, Beijing University
Designed and developed a web-based business simulation tool for MBA teaching & general management training.

CONFERENCE PRESENTATIONS

- “Revenue Management with Limited Information: Managing Cancellations,” INFORMS Annual Meeting, 2007, Seattle (Tuesday Nov 06, 13:30 - 15:00, Session: Revenue Management Models)
- “Robust Revenue Management: Overbooking and Fare-class Allocation,” INFORMS Revenue Management and Pricing Section Conference, 2007, Barcelona (presented by I. Karaesmen)
- “Revenue Management with Limited Demand Information,” Sixth Annual Supply Chain and Logistics Engineering Conference (SCALE), University of Florida, Gainesville, 2007 (presented by M. Ball)
- “Revenue Management with Limited Demand Information,” INFORMS Pittsburgh, 2006
- “Towards Robust Revenue Management: Capacity Control Using Limited Demand Information,” INFORMS Revenue Management and Pricing Section Conference, 2006, New York (presented by M. Ball)
- “Booking Control Policies for Revenue Management Using Limited Demand Information,” INFORMS M&SOM Conference, 2006, Atlanta, Georgia (presented by I. Karaesmen).
- “Revenue Management Policies for Simultaneous Order Promising and Delivery Commitment,” INFORMS Computing Society Conference, Annapolis, Maryland, 2005

PROFESSIONAL ACTIVITIES

- Referee for the journal Operations Research
- Future Academician Colloquium Participant, 2007, INFORMS Seattle
- Student Member of INFORMS

WORK EXPERIENCE

- Algorithm designer and database analyst, 2002-2003
Aeten Design Group, Williamsburg, VA
- Visualization and education software engineer, 2000-2001
Chinese Academy of Science, Beijing China

HONORS AND AWARDS

- Dean's research fellowship and graduate assistantship, 2003-2007
Robert H. Smith School of Business, University of Maryland, College Park, Maryland
- Summer research assistantship, 2003
Department of Computer Science, College of William & Mary, Williamsburg, Virginia
- Full tuition remission and teaching assistantship, 2001-2003
Computational Operations Research Program, College of William & Mary, Williamsburg, Virginia
- Seimens scholarship for graduate students, 1997-1998
Guanghua School of Management, Beijing University, Beijing China
- Aetna scholarship for undergraduate students, 1995-1996
Guanghua School of Management, Beijing University, Beijing China
- Guanghua scholarship for undergraduate students, 1994-1995
Guanghua School of Management, Beijing University, Beijing China
- Honor of Excellent Student, 1993-1994, Beijing University, Beijing, China

COMPUTER SKILLS

- Computer Languages: Python, Java, C/C++, SQL, Maple, MatLab, AMPL, R, PHP, Pascal.
- Software Packages: Microsoft Office, Maple, MatLab, R, S-plus, AMPL, SPSS, SAS, JBuilder.
- Operation Systems: Unix/Linux, Windows.
- Database Systems: Oracle, MySQL, Access.

REFERENCES

- **Michael O. Ball**
Orkand Corporation Professor of Management Science
Robert H. Smith School of Business
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Institute of Transportation Studies, MC 720, McLaughlin Hall
University of California
Berkeley, CA 94720-1720
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- **Michael Fu**
Tyser Professor of Management Science
Department of Decision & Information Technologies
Robert H. Smith School of Business and Institute for Systems Research
Van Munching Hall
University of Maryland
College Park, MD 20742-1815
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- **Itir Z. Karaesmen**
Assistant Professor
Decision and Information Technologies
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PERSONAL

- Native speaker of Chinese, fluent in English, knowledge of Greek and German.
- Sports: tennis, table tennis, skating and skiing, soccer, basketball, Chinese chess.

GRADUATE COURSE WORK

Robert H. Smith School of Business, University of Maryland, College Park, Maryland

Computational aspects of integer programming, Applied multivariate statistics I & II, Microeconomics analysis I, Operations management, Probabilistic models and queuing theory, Advance microeconomics I, Simulation of discrete-event system, E-commerce & supply chain management, Probabilistic optimization.

College of William & Mary, Williamsburg, Virginia

Network system & design, Data structure & algorithm, Linear programming, Statistic decision theory, Computer organization & programming languages, Non-linear programming, Reliability, Data mining, Stochastic Models in Computer Sciences, Modeling & Simulation, Parametric Modeling, Advanced Analysis of Algorithms, Discrete-State Stochastic Processes