

DANIEL ADELMAN

Office

The University of Chicago
Booth School of Business
5807 South Woodlawn Avenue
Chicago, IL 60637
(773) 834-2019, FAX (773) 702-0458
e-mail: dan.adelman@ChicagoBooth.edu

September 4, 2009

Research Interests

Revenue Management and Pricing Optimization
Internal Pricing Mechanisms for Operational Control
Supply Chain Management; Inventory, Production, and Logistics
Approximate Dynamic Programming
Operations Strategy and Performance Analysis.

Education

GEORGIA INSTITUTE OF TECHNOLOGY	1997
Ph.D. in Industrial Engineering and Operations Research.	
GEORGIA INSTITUTE OF TECHNOLOGY	1994
M.Sc. in Operations Research.	
GEORGIA INSTITUTE OF TECHNOLOGY	1993
Bachelor of Industrial Engineering.	

Employment

PROFESSOR OF OPERATIONS MANAGEMENT		
The University of Chicago, Booth School of Business.	Sum 2005 – present	
ASSOCIATE PROFESSOR OF OPERATIONS MANAGEMENT		
The University of Chicago, Booth School of Business.	Sum 2001 – Spring 2005	
ASSISTANT PROFESSOR OF OPERATIONS MANAGEMENT		
The University of Chicago, Booth School of Business.	Sum 1997 – Spr 2001	
PRODUCTION AND INVENTORY OPERATIONS COURSE		Fall 1996
Instructor. Undergraduate senior industrial engineering students. Georgia Tech.		
AT&T FIBER-OPTICS MANUFACTURING		Winter 1994 – Spring 1997
Graduate Research Assistant, Dr. George L. Nemhauser.		
MULTINOMIAL SELECTION PROCEDURES		Spring 1993
Graduate Research Assistant, Dr. David M. Goldsman.		
IBM MANUFACTURING SIMULATION AND PLANT LAYOUT		Summers 1991, 1992
Manufacturing Engineer, IBM, Research Triangle Park, North Carolina.		
MISCELLANEOUS RESEARCH PROJECTS		Fall 1991 – Winter 1993
Video Duplication Systems, Jet Turbine Assembly Optimization, Scheduling of Cold Rolling Plants, Industrial Software Scheduling Systems. Funded by NSF.		
MONTE CARLO SIMULATION FOR HIGH-TEMPERATURE SUPERCONDUCTORS		Summer 1990
Research Assistant, Dr. Luc. T. Wille, Florida Atlantic University. Funded by DARPA.		

Editorial Experience

Associate Editor, *Management Science*, 2009-present.
Associate Editor, *Manufacturing & Service Operations Management*, 2006-present.
(Meritorious Service Award, 2006).
Associate Editor, *Operations Research*, 2003-present.
Ad-hoc reviewer: *Naval Research Logistics*, *Transportation Science*, *Networks*,
Mathematical Programming, *IIE Transactions*, *Journal of Accounting Research*,
Discrete Event Dynamic Systems
Editorial Board, *IIE Transactions*, 2003-2005.
Editorial Review Board, *Manufacturing & Service Operations Management*, 2001-2005.

Honors

Gary D. Eppen Faculty Fellow, The University of Chicago.	2007-2008
World Trade Magazine “Fabulous 50 Plus One.”	2006
IBM Corporation Scholar, The University of Chicago.	1999-2000
George B. Dantzig Prize.	1998
Best dissertation in <i>Operations Research</i> .	
MSOM Paper Prize.	1997
Best student paper in <i>Operations Management</i> .	
George E. Nicholson Prize, Honorable Mention.	1997
Best student paper in <i>Operations Research</i> .	
INFORMS Doctoral Colloquium.	1996
Dept. of Energy Predoctoral Fellowship, Integrated Manufacturing.	1993-1996
National Science Foundation Graduate Fellowship.	Awarded 1993
Presidential Fellow, Georgia Tech Graduate School.	1993-1997
USA Today All-USA College Academic Team.	1993
Dwight D. Gardner, Industrial Engineering Scholarship.	1992
Dow Chemical, Engineering Scholar.	1991
Westinghouse Science National Semifinalist.	1989

Publications

D. Zhang and D. Adelman. “An Approximate Dynamic Programming Approach to Network Revenue Management with Customer Choice.” *Transportation Science*, 43, 381-394, 2009.

D. Adelman. “A Simple Algebraic Approximation to the Erlang Loss System.” *Operations Research Letters*, 36, 484-491, 2008.

D. Adelman and A. Mersereau. “Relaxations of Weakly Coupled Stochastic Dynamic Programs.” *Operations Research*, 56(3), 712-727, 2008.

D. Adelman. “Price-Directed Control of a Closed Logistics Queueing Network.” *Operations Research*, 55(6), 1022-1038, 2007

D. Klabjan and D. Adelman. “A Convergent Infinite-Dimensional Linear Programming Algorithm for Deterministic Semi-Markov Decision Processes on Borel Spaces.” *Mathematics of Operations Research*, 32(3), 528-550, 2007

D. Adelman. “Dynamic Bid-Prices in Revenue Management.” *Operations Research*, 55(4), 647-661, 2007.

D. Klabjan and D. Adelman. “Existence of Optimal Policies for Semi-Markov Decision Processes Using Duality for Infinite Linear Programming.” *SIAM Journal on Control and Optimization*, 44, 2104-2122, 2006.

D. Adelman and D. Klabjan. “Duality and Existence of Optimal Policies in Generalized Joint Replenishment.” *Mathematics of Operations Research*, 30, 28–50, 2005.

D. Adelman. “A Price-Directed Approach to Stochastic Inventory/Routing.” *Operations Research*, 52, 499–514, 2004.

D. Adelman. “Price-Directed Replenishment of Subsets: Methodology and its Application to Inventory Routing.” *Manufacturing & Service Operations Management*, 5, 348–371, 2003.

D. Adelman and G. L. Nemhauser. “Price-Directed Control of Remnant Inventory Systems.” *Operations Research*, 47, 889–898, 1999.

D. Adelman, G. L. Nemhauser, et. al. “Allocating Fibers in Cable Manufacturing.” *Manufacturing & Service Operations Management*, 1, 21–35, 1999.

D. Adelman and G. L. Nemhauser. “Price-Directed Control of Remnant Inventory Systems.” *Proceedings of the 1996 Manufacturing & Service Operations Management Conference*, Dartmouth College, Hanover, NH, June 1996.

“Multinomial Selection Procedures for Use in Simulations,” with D. Goldsman, P. Auclair, and J. Swain. *Proceedings of the 1993 Winter Simulation Conference*. Dartmouth College, Hanover, NH. 1993.

D. Adelman and D. Young. “A Spreadsheet-Based Prototype Enterprise System.” *Industrial Engineering*. Volume 26. No. 5. May 1994.

“Long-Range Interactions, Long-Range Order, and a Possible Devil’s Staircase in $YBa_2Cu_3O_z$,” with Luc T. Wille, et. al. *J. of Physics: C.M.* 4. L585-L592. 1992.

Working Papers

D. Adelman and C. Barz. “A Unifying Approximate Dynamic Programming Model for the Economic Lot Scheduling Problem.” (Under revision)

D. Adelman and D. Klabjan. “Computing Near Optimal Policies in Generalized Joint Replenishment.” (Submitted)

D. Adelman. “Internal Transfer Pricing in a Stochastic, Dynamic Operation with Technologically Dependent Agents.” (Under revision)

D. Adelman and S. Wang. “Supply Disruption with a Risk-Averse Buyer.” (Under revision)

In Preparation

D. Adelman and C. Barz. “A Price-Directed Dynamic Heuristic for the Economic Lot Scheduling Problem.”

D. Adelman and S. Wang. “Contract Portfolio Optimization for a Gasoline Supply Chain.”

D. Adelman and A. Mersereau. “Dynamic Capacity Allocation to Customers Who Remember Past Service.”

D. Adelman and C. Uckun. “Power Approximations in Network Revenue Management.”

Teaching

Extensive experience teaching core Operations Management in the full-time, part-time, and executive MBA programs, Chicago Booth, 1997-2009.

Executive education (non-degree):

RSM McGladrey Custom Short-Course, 1999, 2002, 2003, 2006.

Chicago Management Institute, 2009.

Ph.D. level courses: Dynamic Programming, 2007. Operational Pricing, 2008.

With D. Eisenstein and D. Barnes-Schuster. "The Operations Quadrangle: Business Process Fundamentals." 121 pages, 1999. (Course notes for MBA core course in Operations Management)

Presentations

INFORMS Applied Probability Conference, Cornell University, Summer 2009.

Stanford University, ICME Colloquium, Spring 2009.

Kellogg, Northwestern University, Winter 2009.

Baltimore INFORMS, Fall 2008.

Carnegie Mellon University, Tepper School of Business, Fall 2007.

Duke University, Fuqua School of Business, Fall 2007.

Tuck School of Business, Winter 2007.

Pittsburgh INFORMS, Fall 2006. Session talks, and Invited Tutorial on Approximate Dynamic Programming.

M&SOM Conference, Georgia Tech, Atlanta, Summer 2006.

San Francisco INFORMS, Fall 2005.

University of Chicago, Empirical Economics Workshop, Fall 2005.

M&SOM Conference, Kellogg, Northwestern University, Summer 2005.

University of British Columbia, Sauder School of Business, Operations and Logistics Division, Summer 2005. 4-part seminar series.

Cornell University, The Johnson School of Management, Spring 2005.

University of British Columbia, Sauder School of Business, Operations and Logistics Division, Winter 2005.

Denver INFORMS, Fall 2004.

University of Michigan, IOE, Fall 2004.

Revenue Management and Pricing Conference, MIT, Summer 2004.

The University of Chicago, Workshop in Operations Management. Spring 2004.

Atlanta INFORMS Conference, Fall 2003.

The University of Chicago, Workshop in Operations Management. Fall 2003.

M&SOM Conference, Los Angeles, Summer 2003.

Revenue Management and Pricing Conference, Columbia University, Summer 2003.

Wharton, University of Pennsylvania, Spring 2003.

San Jose INFORMS Conference, Fall 2002.

Institute for Mathematics and its Applications, University of Minnesota, Fall 2002.

MSOM Conference, Cornell University, Summer 2002.

Optimization Days, Montreal, Summer 2002.

CORS conference, Toronto, Summer 2002.

Purdue University, Krannert School of Management, Spring 2002.

Northwestern University, IEEMS, Fall 2001.

Miami INFORMS Conference, Fall 2001.

San Antonio INFORMS Conference, Fall 2000.

The University of Chicago, Workshop in Operations Management. October 2000.

Mathematical Programming Symposium, Atlanta, GA, August 2000.

Duke University, December 1999.
 MIT Summer Camp in OM. Sloan School of Management, July 1999.
 Multi-Echelon Inventory Conference, Krannert School of Management, June 1999.
 Montreal INFORMS Conference, Spring 1998.
 INFORMS Conference, Dallas, TX, Fall 1997.
 Columbia University, Graduate School of Business, Winter 1997.
 Cornell University, Industrial Engineering & Operations Research, Winter 1997.
 Carnegie Mellon, GSIA, Winter 1997.
 University of Michigan Business School, Winter 1997.
 Northwestern University, Kellogg Graduate School of Management, Winter 1997.
 University of California, Berkeley, IOE, Winter 1997.
 The University of Chicago, Booth School of Business, Winter 1997.
 Texas A&M, Industrial Engineering, Winter 1997.
 George E. Nicholson Prize talk. INFORMS, San Diego, CA, Spring 1997.
 INFORMS Conference, Atlanta, GA, Fall 1996.
 First Annual Symposium of Fellows, U.S. Department of Energy Integrated Manufacturing
 Predoctoral Fellowships Program, Washington, D.C., Fall 1996.
 INFORMS M&SOM Conference, Dartmouth College, Hanover, NH, Summer 1996.
 INFORMS Conference, Washington D.C., Spring 1996.
 AT&T and Bell Laboratories, Norcross, GA, Winter 1994.

Consulting and Corporate Contacts

Akamai, Barack Obama Presidential Campaign, Barclays, Boeing, British Petroleum, Gen-
 eral Electric Research Labs, Hub Group, HSBC, Johnson Controls, Littelfuse, McDonald's
 Corporation, Siltronic, Textainer, The Teaching Company.

Memberships INFORMS, Section on Manufacturing and Service Operations Management (MSOM)
 Institute of Industrial Engineers (IIE)
 Production and Operations Management Society (POMS)
 Math Programming Society

Institutional Service

Council of the University Senate (elected by the faculty), University of Chicago, 2008–2011.
 Curriculum Review Committee, 2007-2008.
 Course Scheduler for Operations Area, 2007-2008.
 Graduate Student Faculty Committee, 2006-2007.
 Ph.D. Area Advisor, OM/MS, 2005-2009.
 Student orientation curriculum talk, 2000, '03, '06, '08.
 Guest speaker, Management Consulting Group, 2002, '08, '09.
 Substitution coordinator for Operations Area, 1999-2004.

External Service

Art Institute of Chicago's Marketing Council, 2009–present.
 Chair, INFORMS Impact Prize Committee, 2006.
 Chair, INFORMS Professional Recognition Committee, 2006.
 Judge, INFORMS Nicholson Prize, 2006.
 Judge, M&SOM student paper prize, 2001, 2002, 2003, 2005.
 NSF Proposal Panel Reviewer, Washington D.C., 2000.
 Speaker, INFORMS Doctoral Colloquium, Seattle Washington, 1998.
 NSF Design and Manufacturing Conference Planning, Atlanta, Georgia, 1992.
 Judge, Dantzig Dissertation Prize, 1999-2000.

Doctoral and Post-Doctoral Advisement

Current Ph.D. students: Shanshan Wang, Canan Uckun.

Former post-doctoral students: Christiane Barz (UCLA Anderson), Dan Zhang (McGill University)

Member of dissertation committee: Papadaki, Katerina, Ph.D. Princeton 2002. (London School of Economics)

Computer Skills

Installing and running Debian Linux. C, C++, AMPL, CPLEX.

Other Interests

Family, piano, weightlifting, biking.

References

Available upon request.