Baris Ata (October 2012)

Business Addresses: Kellogg School of Management Northwestern University 2001 Sheridan Rd. Room 583, Evanston, IL 60208

(847) 491 7236 (phone) b-ata@kellogg.northwetern.edu

Booth School of Business University of Chicago 5807 S. Woodlawn Ave Room 364, Chicago, IL 60637 (773) 834 2344 (phone) baris.ata@chicagobooth.edu

EDUCATION

Ph.D., Graduate School of Business, Stanford University, California.	2003
M.S., Statistics, Stanford University, California.	2002
M.S., Mathematics, Stanford University, California.	2001
M.S., Business Research, Stanford University, California.	2000
M.S., Engineering Economic Systems & Operations Research, Stanford University, California.	1999
B.S., Industrial Engineering, Bilkent University, Ankara, Turkey.	1997

EMPLOYMENT

Ford Foundation Visiting Research Associate Professor, Booth School, University of Chicago	2012-
Associate Professor (with tenure since December 2008), Kellogg School, Northwestern Universit	y 2007-
Faculty Member, NU Transplant Outcomes Research Collaborative (NUTORC)	2009-
Assistant Professor, Kellogg School, Northwestern University.	2003-2007

SHORT TERM VISITING POSITIONS

Visiting Scholar, Graduate School of Business, Stanford University	Summer 2010
Visiting Scholar, Stern School of Business, New York University	April 2010
Visiting Scholar, Industrial & Systems Engineering, Georgia Institute of Technology	January-May 2008

HONORS & AWARDS (Selected)

Manufacturing & Service Operations Management Meritorious Service Award, 2011 Best Paper in Service Science Award, INFORMS 2009.

Supervised Winner of Best Dissertation on Aviation Applications Award, INFORMS 2008

Supervised Honorable Mention in M&SOM Student Paper Competition, INFORMS 2008

Supervised Honorable Mention in Nicholson Student Paper Competition, INFORMS 2006

Operations Research Meritorious Service Award, 2003.

Jaedicke Merit Scholar Award, GSB, Stanford University, 1998-2000 (received twice for outstanding performance at Stanford University Graduate School of Business Ph.D. Program)

Ranked 10th (among approximately one million entrants) in the University Entrance Exam in Turkey, 1992.

RESEARCH

Interests: Analytical and Empirical Study of Delivery of Healthcare Services, Sustainable Operations, Revenue Management, Dynamic Capacity Management in Manufacturing & Service Operations

Areas of Expertise: Mathematical and Stochastic Modeling, Dynamic and Stochastic Optimal Control, Queueing Theory and Applied Probability, Pricing Strategies and Mechanism Design

PUBLICATIONS, FORTHCOMING, CONDITIONALLY ACCEPTED

- 1. Heavy traffic analysis of open processing systems with complete resource pooling: Asymptotic optimality of discrete review policies, *Annals of Applied Probability*, **15**(1A) 331-391, **2005**. With S. Kumar.
- 2. Drift rate control of a Brownian processing system, *Annals of Applied Probability* **15**(2) 1145-1160, **2005**. With J.M. Harrison and L.A. Shepp.
- 3. Dynamic power control in a wireless static channel subject to a quality of service constraint, *Operations Research*, **53**(5) 842-851, **2005**.
- 4. Adaptive training and data power allocation for fading downlink channels with feedback, *Proceedings of IEEE International Symposium on Information Theory (ISIT)*, Seattle, WA, Vol 1-6, pp 168-172, **2006**. With M. Agarwal and M. Honig.
- 5. Dynamic control of a multiclass queue with thin arrival streams, Operations Research, 54(5) 876-892, 2006.
- 6. Dynamic control of an M/M/1 Service System with Adjustable Arrival and Service Rates, *Management Science*, **52**(11) 1778-1791, **2006**. With S. Shneorson.
- 7. Dynamic Power Control in a fading downlink channel subject to an energy constraint, *Queueing Systems*, 55(1) 41-69, 2007. With K. E. Zachariadis.
- 8. Heavy traffic analysis of maximum pressure policies for stochastic processing networks with multiple bottlenecks, *Queueing Systems*, **59**(3-4) 191-235, **2008**. With W. Lin.
- 9. The value of partial resource pooling: Should a service network be integrated or product-focused? *Management Science*, **55**(1) 115-131, **2009**. With J. A. Van Mieghem.
- 10. Dynamic control of a make-to-order parallel-server system with cancellations, *Operations Research*, **57**(1) 94-108, **2009**. With M.A. Rubino.
- 11. Near-optimal dynamic leadtime quotation and scheduling under convex-concave customer delay costs, *Operations Research*, **57**(3) 753-768, **2009**. With T. Olsen.
- 12. Bid-price controls for Network Revenue Management: Martingale characterization of optimal bid prices. *Mathematics of Operations Research*, **34**(4) 912-936, **2009**. With M. Akan.
- 13. Optimizing Liver Allocation Policy. *Hepatology*, **50**(4) 647A-648A, **2009**. With M. Akan, O.Alagoz, F.S. Erenay, A. Said.
- 14. Asymmetric information and economies-of-scale in service contracting, *Manufacturing and Service Operations Management*, **13**(1) 58-72, **2011**. With M. Akan and M.A. Lariviere.
- 15. Adaptive training for correlated fading channels with feedback. *IEEE Transactions on Information Theory*, **58**(8) 5398-5417, **2012**. With M. Agarwal and M. Honig.
- 16. On Optimality Gaps in the Halfin-Whitt Regime. *Annals of Applied Probability*, **22**(1) 407-455, **2012**. With I. Gurvich.
- 17. Optimizing Organic Waste to Energy Operations. *Manufacturing and Service Operations Management*, **14**(2) 231-244, **2012**. With D. Lee and M.H. Tongarlak.
- 18. A broader view of the liver allocation system incorporating disease evolution., *Operations Research*, **60**(4) 757-770, **2012.** With M. Akan, O.Alagoz, F.S. Erenay, A. Said.
- 19. Bayesian Dynamic Pricing in Queueing Systems with Unknown Characteristics. *In press, Manufacturing and Service Operations Management*. With P. Afeche.
- 20. Congestion-based leadtime quotation for heterogeneous customers with convex-concave delay costs: Optimality of a cost-balancing policy based on convex hull functions. *In press, Operations Research.* With M. Akan and T. Olsen.

- 21. Congestion-based leadtime quotation and pricing for revenue maximization with heterogeneous customers. *In press, Queueing Systems.* With T. Olsen.
- 22. On Hospice Operations under Medicare Reimbursement Policies. *In press, Management Science*. With B.L. Killaly, T.L. Olsen, R. Parker.
- 23. On scheduling a multiclass queue with abandonments under nonlinear delay costs. *In press, Queueing Systems*. With M.H. Tongarlak.
- 24. Structural Estimation of Callers' Delay Sensitivity in Call Centers. *Management Science (minor revision)*. With Z. Aksin-Karaesmen, S. Emadi, C. Su.

WORKING PAPERS

- 25. Revenue management by sequential screening. With M. Akan and J. Dana.
- 26. On bid-price controls for network revenue management. With M. Akan.
- 27. Dynamic Pricing of Remanufacturable Products Under Demand Substitution: A Product Life Cycle Model. With M. Akan and R.C. Savaskan.
- 28. OrganJet: Overcoming geographical disparities in access to deceased donor kidneys in the United States. With A. Skaro and S. Tayur.
- 29. Got Local Food? Understanding the Fresh-Food Supply Chain. With D. Lee and M.H. Tongarlak.
- 30. Impact of Delay Announcements in Call Centers: An Empirical Approach. With Z. Aksin-Karaesmen, S. Emadi and C. Su.
- 31. On Optimal Warranty Pricing with Product Failures and Forward-Looking Consumers. With O. Islegen and J. Wang
- 32. Waitlist Management. *Invited Book Chapter. Kidney Transplantation: A Practical Guide to Medical Management.* With D. Chhabra and J. Friedewald.
- 33. What Drives the Geographical Differences in Deceased Donor Organ Harvesting in the US? With M. Arikan and R. Parker.
- 34. A Characterization of Optimal Bid Prices Under Consumer Choice.
- 35. Note: Do you really want to know? The role of commitment and forecast updating in advance selling to forward-looking consumers. With J. Dana.

WORK IN PROGRESS

- 36. On the Value of Vehicle-to-Grid Electricity. With E. Hart, E. Plambeck, and X. Peng
- 37. On the Impact of Patient Portfolio on the Surgeons/Transplant Centers' Response to Organ Offers. With G. Hitsch, C. Su, and W. Williford.
- 38. On the Financial Incentives of Transplant Centers: Improving the Paired Living-Donor Transplants Across Multiple Centers. With I. Ashlagi.
- 39. Designing an Optimal Rating Scheme for Fishery Harvesting. With D. Lee and M. H. Tongarlak
- 40. On the unintended consequences of risk-adjusted evaluation of Transplant centers.

OTHER PUBLICATIONS

Dynamic Control of Stochastic Networks, Ph.D. Dissertation, Graduate School of Business, Stanford University, 2003.

Harvest: Organic Waste Recycling with Energy Recovery (A). Harvard Business School Case 611-033. With D. Lee and M.H. Tongarlak.

Harvest: Organic Waste Recycling with Energy Recovery (B). Harvard Business School Case 611-034. With D. Lee and M.H. Tongarlak.

"J. Michael Harrison". Invited Biography. Production and Operations Management, 20(4) x-xi, 2011.

EDITORIAL POSITIONS

Manufacturing and Service Operations Management (2008- present)

Associate Editor

Management Science (2009-Present)

Associate Editor for the Stochastic Models & Simulation Area

Operations Research (2012 – present)

Associate Editor for the Areas of

- i) Stochastic Models;
- ii) Operations and Supply Chains;
- iii) Environment, Energy and Sustainability

Mathematics of Operations Research (2012 – present)

Associate Editor for the Stochastic Models Area

Surveys in Operations Research and Management Science (2009 – present)

Associate Editor

IIE Transactions in Healthcare Systems Engineering (2010 – present)

Associate Editor

Ad hoc reviewer for: M&SOM, Management Science, Operations Research, Queueing Systems, Stochastic Systems, Transportation Science, Math of OR, Annals of Applied Probability, Prob. in the Eng. and Inf. Sci., IEEE Tran. on Aut. Control, IEEE Tran. on Inf. Theory, SIAM Journal on Control and Optimization, American Journal of Transplantation.

EXTERNAL SERVICE

Scientific Registry of Transplant Recipients (SRTR) Technical Advisory Committee	2011-
Co-chair of the 2015 INFORMS Applied Probability Conference	current
Organizing Committee Member of 2012 INFORMS Annual Meeting	2012
Co-chair of the 2012 Healthcare Operations Management Special Interest Group (SIG/MSOM) Co	nf. 2012
Judge for the M&SOM best published paper competition	2011
Judge for JFIG Paper Competition of INFORMS	2010, 2011
Judge for Nicholson Student Paper Competition of INFORMS	2010
Council Member of the Applied Probability Society of INFORMS	2008-2010
Co-chair of the INFORMS Revenue Management Conference	2009
INFORMS Applied Probability Conference Organizing Committee Member	2009, 2011
Cluster Chair for Applied Probability (26 Sessions), Annual INFORMS Conference	2008
Cluster Chair for Revenue Management (25 Sessions), Annual INFORMS Conference	2006
M&SOM Conference Organizing Committee Member	2005
Invited Session Chair at various conferences including Applied Probability Conferences, Revenue Management Conferences, M&SOM Conferences and Annual INFORMS Meetings.	

INVITED RESEARCH SEMINARS

2012: Stanford, Koc, Ivey

2011: Cornell, USC, U of Chicago, Wharton

2010: CMU, NYU, UNC, Columbia, Duke, Delta Airlines

2009: UCSD, U of Chicago, U of Minnesota, UIUC, U of Michigan, NUTORC

2008: NYU, MIT, Stanford, UCSD, UT Austin, Georgia Tech, Northwest Airlines

2007: Georgia Tech, Stanford, MIT, U of Toronto

2006: Columbia, Wharton, USC

Earlier at various universities, including Stanford, Northwestern, MIT, NYU, Columbia, U of Michigan, U of North Carolina, U of British Columbia, Bilkent, Sabanci University. At all recent INFORMS national meetings, and at various subdivision meetings including Applied Probability, M&SOM, Revenue Management Conferences.

SERVICE TO NORTHWESTERN UNIVERSITY

Founding Director of the Operations Management (OM) Ph.D. Program

2007-2012

Founded the OM Ph.D. Program (2007)

Designed the OM Ph.D. program and the curriculum (2007)

Handled Ph.D. Admissions (since 2003)

Offered an ad-hoc mathematics course for incoming Ph.D. students over the summer on basic analysis concepts such as metric spaces, measure theory etc. (Summer 2004, 2007)

Faculty advisor of all OM Ph.D. students during their first two years (since 2004)

Kellogg Operations Workshop Organizing Committee Member

2004-

Seminar Organizer (2004, 2005, 2008)

Majors presentation to MBA/Ph.D. students students (2004, 2006, 2008, 2009, 2010)

TEACHING

Kellogg School of Management, Northwestern University

Operations Management (MBA Core. Average Rating: 8.0/10)

Operations Strategy (MBA Elective. Average Rating: 8.5/10)

Spreadsheet Modeling for Man. Decisions (MBA Elective. Average Rating: 9.1/10)

Stochastic Calculus & Control (Ph.D. Elective. Average Rating: 9.4/10)

Topics in Operations Management (Ph.D. Elective. Average Rating: 9.75/10).

Emerging Areas in Operations Management (Ph.D. Elective. Average Rating: 10/10)

STUDENT SUPERVISION

Co-advisor of Konstantinos Zachariadis (2008). "Efficiency of Financial Markets with Sophisticated, Symmetrically-Informed Traders". Now Assistant Professor in the Finance Department of London School of Economics. (Principal Advisor: Mark Satterthwaite).

Principal Advisor of Mustafa Akan (2008). "Essays in Revenue Management". Now Assistant Professor at Tepper School of Business, Carnegie-Mellon University.

Principal Advisor of Mustafa Tongarlak (2012), postdoctoral student coadvised with Deishin Lee. Joining School of Management at Bogazici University, Istanbul, Turkey.

Principal Advisor of Seyed Emadi (2013, Expected) "Estimation and Analysis of Callers' Behavior in Call Centers"

Co-advisor of Jingqi Wang (2013, Expected) "Essays in Supply Chain Management" (Principal advisor: Hyo duk Shin).

William Williford (3rd year) Xioashan Peng (3rd year)

RESEARCH GRANTS

Motorola research grant, (\$90,000), 2004-2007
"Stochastic Models of Downlink Scheduling in Wireless Communication"

NON-ACADEMIC EMPLOYMENT

Chief Scientist, OrganJet Corporation	2012-
Associate, McKinsey & Company, Istanbul, Turkey	2001

Personal

US Citizen. Married.