Baris Ata (March 2013)

Business Addresses:
Kellogg School of Management (847) 491 7236 (phone)
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2001 Sheridan Rd. Room 583, Evanston, IL 60208

Booth School of Business (773) 834 2344 (phone)
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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 Professor, Booth School, University of Chicago	2012-
Professor, Kellogg School, Northwestern University	2013-
Associate Professor (with tenure since December 2008), Kellogg School, Northwestern University	2007-2013
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)

Ford Fellowship, Booth School of Business, University of Chicago	2012-2013
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 (received twice)	1998-2000
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

PUBLICATIONS, FORTHCOMING

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. Congestion-based leadtime quotation for heterogeneous customers with convex-concave delay costs: Optimality of a cost-balancing policy based on convex hull functions. *Operations Research,* **60**(6) 1505-1519, **2012.** With M. Akan and T. Olsen.
20. Congestion-based leadtime quotation and pricing for revenue maximization with heterogeneous customers. *Queueing Systems*. **73**(1) 35-78, **2013**. With T. Olsen.

21. On Hospice Operations under Medicare Reimbursement Policies. *In press, Management Science.* With B.L. Killaly, T.L. Olsen, R. Parker.

22. On scheduling a multiclass queue with abandonments under nonlinear delay costs. *In press, Queueing Systems.* With M.H. Tongarlak.

23. Bayesian Dynamic Pricing in Queueing Systems with Unknown Characteristics. *In press, Manufacturing and Service Operations Management*. With P. Afeche.

24. Structural Estimation of Callers' Delay Sensitivity in Call Centers. *In press, Management Science.* With Z. Aksin-Karaesmen, S. Emadi, C. Su.

WORKING PAPERS

25. Waitlist Management. *Invited Book Chapter. Kidney Transplantation: A Practical Guide to Medical Management.* With D. Chhabra and J. Friedewald.

26. OrganJet: Overcoming geographical disparities in access to deceased donor kidneys in the United States. *Management Science, Revise-and-Resubmit.* With A. Skaro and S. Tayur.

27. Impact of Delay Announcements in Call Centers: An Empirical Approach. *Operations Research, Revise-and-Resubmit.* With Z. Aksin-Karaesmen, S. Emadi and C. Su.

28. On bid-price controls for network revenue management. *Stochastic Systems, Revise-and-Resubmit.* With M. Akan.

29. On Optimal Warranty Pricing with Product Failures and Forward-Looking Consumers. *Operations Research, Revise-and-Resubmit.* With O. Islegen and J. Wang.

30. What Drives the Geographical Differences in Deceased Donor Organ Harvesting in the US? With M. Arikan, J. Friedewald and R. Parker.

31. Got Local Food? Understanding the Fresh-Food Supply Chain. With D. Lee and M.H. Tongarlak.

32. Revenue management by sequential screening. With M. Akan and J. Dana.

33. Dynamic Pricing of Remanufacturable Products Under Demand Substitution: A Product Life Cycle Model. With M. Akan and R.C. Savaskan.

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.

36. The Effect of Supply Chain Complementarities on Local Food. With D. Lee and M.H. Tongarlak.

37. On the Value of Vehicle-to-Grid Electricity. With E. Hart, E. Plambeck, and X. Peng.

WORK IN PROGRESS

38. On the Impact of Patient Portfolio on the Surgeons/Transplant Centers' Response to Organ Offers. With G. Hitsch, C. Su, and W. Williford.

39. Donor-Dependent Scoring Schemes for Kidney Allocation. With Y. Ding and S. Zenios.

40. On Delay Announcements in Call Centers. With S. Emadi

41. Is demand response management good for the environment? With O. Islegen and S. Duran

42. Designing an Optimal Rating Scheme for Fishery Harvesting. With D. Lee and M. H. Tongarlak.

43. On the unintended consequences of risk-adjusted evaluation of Transplant centers. With M. Arikan, R. Parker and A. Skaro.

44. Simulation of dynamical systems with endogenous evolution: Characterizing the equilibrium with forward-looking agents. With P. Glynn and X. Peng.

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, 2010. With D. Lee and M.H. Tongarlak.

Harvest: Organic Waste Recycling with Energy Recovery (B). Harvard Business School Case 611-034, 2010. 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: *Manufacturing and Service Operations Management, Management Science, Operations Research, Queueing Systems, Stochastic Systems, Transportation Science, Mathematics of Operations Research, Annals of Applied Probability, Probability in the Engineering and Informational Sciences, IEEE Transactions on Automatic Control, IEEE Transactions on Information 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) Conf.	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, Western Ontario (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 (2004, 2006, 2008, 2009, 2010)

TEACHING

Kellogg School of Management, Northwestern University

- Operations Management (MBA Core)
- Operations Strategy (MBA Elective)
- Spreadsheet Modeling for Managerial Decisions (MBA Elective)
- Stochastic Calculus & Control (Ph.D. Elective)
- Topics in Operations Management (Ph.D. Elective).
- Emerging Areas in Operations Management (Ph.D. Elective)

STUDENT SUPERVISION

Co-advisor of Konstantinos Zachariadis (2008). "Efficiency of Financial Markets with Sophisticated, Symmetrically-Informed Traders". First Position: 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". First Position: Assistant Professor at Tepper School of Business, Carnegie-Mellon University.

Principal Advisor of Mustafa Tongarlak (2012), postdoctoral student coadvised with Deishin Lee. First Position: Assistant Professor at School of Management at Bogazici University, Istanbul, Turkey.

Principal Advisor of Seyed Emadi (2013, Expected) "Estimation and Analysis of Callers' Behavior in Call Centers". First Position: Assistant Professor at Kenan-Flagler School of Business, University of North Carolina.

Co-advisor of Jingqi Wang (2013, Expected) "Essays in Supply Chain Management" (Principal advisor: Hyo duk Shin). First Position: Assistant Professor at the School of Business and Economics, University of Hong Kong.

William Williford (3rd year student).

Xioashan Peng (3rd year student).

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.