

Nikolaos (Nikos) Trichakis

CONTACT INFORMATION	MIT Sloan School of Management E62-576, 100 Main Street Cambridge, MA 02142 USA	<i>Voice:</i> +1 (617) 715-4215 <i>E-mail:</i> ntrichakis@mit.edu
RESEARCH INTERESTS	Operations Management, Data-driven Optimization, Resource Allocation, Healthcare Operations, Supply-chain Management, Revenue Management, Financing of Operations	
ACADEMIC APPOINTMENTS	Massachusetts Institute of Technology , Cambridge, Massachusetts USA <i>Zenon Zannetos (1955) Career Development Professor</i> <i>Associate Professor of Operations Management</i> <i>Assistant Professor of Operations Management</i> Sloan School of Management	2018-2016-2018
	Harvard Business School , Boston, Massachusetts USA <i>Assistant Professor of Business Administration</i> Technology and Operations Management Unit	2011-2016
EDUCATION	Massachusetts Institute of Technology , Cambridge, Massachusetts USA <i>Sloan School of Management - Operations Research Center</i> Ph.D. in Operations Research, June 2011. (advised by Dimitris Bertsimas and Vivek F. Farias)	
	Stanford University , Stanford, California USA <i>Department of Electrical Engineering</i> M.S. in Electrical Engineering, specializing in Operations Research, May 2007. (advised by Stephen P. Boyd)	
	Imperial College , London, UK <i>Department of Electrical and Electronic Engineering</i> M.Sc. in Communications and Signal Processing, August 2004.	
	Aristotle University , Thessaloniki, GR <i>School of Engineering</i> Diploma in Electrical Engineering and Computer Science, August 2003.	
PHD THESIS	“Fairness in Operations: From Theory to Practice,” MIT, June 2011.	
PUBLICATIONS	<ol style="list-style-type: none">1. “Development and Validation of an Optimized Prediction of Mortality (OPOM) for Candidates Awaiting Liver Transplantation.” <i>American Journal of Transplantation</i>, 2018;00:1–10. (with D. Bertsimas, J. Kung, Y. Wang, R. Hirose, and P. Vagefi)2. “Data-driven Appointment Scheduling Under Uncertainty: The Case of an Infusion Unit in a Cancer Center.” <i>Management Science</i>, forthcoming, 2018. (with A. Mandelbaum, P. Momcilovic, S. Kadish, R. Leib, and C. A. Bunnell)3. “Loyalty Program Liabilities and Point Values.” <i>M&SOM</i>, forthcoming, 2018. (with S. Y. Chun, and D. A. Iancu)4. “On the Efficacy of Static Prices for Revenue Management in the Face of Strategic Customers.” <i>Management Science</i>, forthcoming, 2018. (with Y. Chen and V. F. Farias)	

5. “Supplier Diversification under Buyer Risk.” *Management Science*, forthcoming, 2018. (with J. Chod and G. Tsoukalas)
6. “Robust Multiclass Queuing Theory for Wait Time Estimation in Resource Allocation Systems.” *Management Science*, forthcoming, 2017. (with C. Bandi, and P. Vayanos)
7. “Dynamic Pricing under Debt: Spiraling Distortions and Efficiency Losses.” *Management Science*, Vol. 64, No. 10, 2018. (with O. Besbes, and D. A. Iancu)
8. “Accept or Decline? An Analytics-Based Decision Tool for Kidney Offer Evaluation.” *Transplantation*, 101(12):2898–2904, Dec 2017. (with D. Bertsimas, J. Kung, D. Wojciechowski and P. A. Vagefi)
9. “Is Operating Flexibility Harmful Under Debt?” *Management Science*, Vol. 63, No. 6, 2017. (with D. A. Iancu, and G. Tsoukalas)
10. “Fairness and Efficiency in Multiportfolio Optimization.” *Operations Research*, Vol. 62, No. 6, 2014. (with D. A. Iancu)
11. “Pareto Efficiency in Robust Optimization.” *Management Science*, Vol. 60, No. 1, 2014. (with D. A. Iancu)
12. “Fairness, Efficiency and Flexibility in Organ Allocation for Kidney Transplantation.” *Operations Research*, Vol. 61, No. 1, 2013. (with D. Bertsimas and V. F. Farias)
13. “On the Efficiency-Fairness Trade-Off.” *Management Science*, Vol. 58, No. 12, 2012. (with D. Bertsimas, and V. F. Farias)
14. “The Price of Fairness.” *Operations Research*, Vol. 59, No. 1, 2011. (with D. Bertsimas, and V. F. Farias)
15. “Quantifying the Electronic Medical Record Implementation to Stabilization Curve.” *Journal of Clinical Oncology*, Vol. 35, No. 8, 2017 (with S. Kadish, A. Senderovich, R. Leib, A. Mandelbaum, P. Momcilovic, and C. A. Bunnell)
16. “Dynamic Network Utility Maximization with Delivery Contracts.” *Proceedings IFAC World Congress*, pages 2907–2912, Seoul, July 2008. (with S. Boyd and A. Zymnis)
17. “An Interior-point Method for Large Scale Network Utility Maximization.” *Proceedings of the Allerton Conference on Communication, Control, and Computing*, Monticello, IL, Sep. 26-28, 2007. (with S. Boyd, D. O’Neill and A. Zymnis)
18. “Designing Response Supply Chain Against Bioattacks.” (with D. Simchi-Levi and P. Y. Zhang)
19. “On Revenue Management with Strategic Customers Choosing When and What to Buy.” (with Y. Chen)
20. “Monitoring With Limited Information.” (with D.-Y. Yoon, and D. A. Iancu)
21. “On the Learning Benefits of Resource Flexibility.” (with J. Chod and M. Markakis)
22. “Blockchain and the Value of Operational Transparency for Supply Chain Finance.” (with J. Chod, G. Tsoukalas, M. Weber and H. Aspegren)

PEER-REVIEWED
CONFERENCE
PUBLICATIONS

ARTICLES UNDER
REVIEW

SELECTED HONORS 2018 INFORMS Optimization Society Young Researchers Paper Prize, First Prize (for “Pareto Efficiency in Robust Optimization.”)

2018 M&SOM Interface of Finance, Operations, and Risk Management Best Paper Award, First Prize (for “Is Operating Flexibility Harmful Under Debt?”)

2018 INFORMS Technology, Innovation Management & Entrepreneurship Best Working Paper Award, Third Prize (for “Blockchain and the Value of Operational Transparency for Supply Chain Finance”)

2018 POMS Best Paper Award, Humanitarian Operations & Crisis Management, Second Prize (for “Designing Response Supply Chain Against Bioattacks”)

2017 POM College of Supply Chain Management Best Student Paper Competition, Second Prize (P. Y. Zhang for “Designing Response Supply Chain Against Bioattacks”)

2013 INFORMS Junior Faculty Paper Competition, First Prize (for “Pareto Efficiency in Robust Optimization.”)

2012 INFORMS George B. Dantzig Dissertation Award, Third Prize

2011 INFORMS Pierskalla Award, finalist (for “Fairness, Efficiency and Flexibility in Organ Allocation for Kidney Transplantation.”)

2006 Scholarship from the Onassis Foundation for Graduate studies

2005 Fellowship Award for Graduate studies at Stanford University

2004 Podium finish in the World Finals of the Microsoft Corporation Imagine Cup Software Development Competition (3rd among 10,000 students worldwide)

2003 Scholarship from The Michael Arnaoutis Foundation for Graduate studies

CASES AND
TEACHING
MATERIALS

“Curtis LLP: A Case on Cases.” Harvard Business School Case, June 2016.

“Financing Curtis LLP.” Harvard Business School Case, June 2016.

“Lotus F1 Team.” Harvard Business School Case, March 2016. (with S. Thomke, and J. Lenhardt, and D. Beyersdorfer)

“Credem: Banking on Cheese.” Harvard Business School Case, March 2015. (with G. Tsoukalas and E. Moloney)

“Credem: Banking on Cheese.” Harvard Business School Teaching Note, March 2015.

“Infection Control at Massachusetts General Hospital.” Harvard Business School Case 614-044, November 2014. (with R. Huckman)

“Infection Control at Massachusetts General Hospital.” Harvard Business School Teaching Note, March 2015. (with R. Huckman)

MBA TEACHING
EXPERIENCE

Massachusetts Institute of Technology, Cambridge, Massachusetts USA
Instructor

- 15.761 Introduction to Operations Management, Fall 2018

- 15.761 Introduction to Operations Management, Fall 2017
- 15.761 Introduction to Operations Management, Spring 2017

Teaching Assistant

- 15.761 Introduction to Operations Management, Spring 2010
- 15.071 The Edge: Decision Methodologies for Managers, Spring 2008

Harvard Business School, Boston, Massachusetts USA

Instructor

- Understanding and Influencing Operations as an Investor, Winter 2016.
- Understanding and Influencing Operations as an Investor, Winter 2015.
- Technology and Operations Management, Sections C and E, Fall 2013.
- Technology and Operations Management, Section E, Fall 2012.
- Technology and Operations Management, Section D, Fall 2011.

PH.D. TEACHING
EXPERIENCE

Massachusetts Institute of Technology, Cambridge, Massachusetts USA

Instructor

- 15.764 Theory of Operations Management, Spring 2017

Teaching Assistant

- 15.764 Theory of Operations Management, Spring 2009

Harvard Business School, Boston, Massachusetts USA

Instructor

- SEAS 222 Stochastic Modeling, Winter 2016
- HBS 4480 Operations Management, Fall 2012

Zaragoza Logistics Center, Zaragoza, Spain

Instructor

- Robust Optimization, Summer Academy 2015

B.S./M.S.
TEACHING
EXPERIENCE

Stanford University, Stanford, California USA

Teaching Assistant for B.S./M.S. level classes in Electrical Engineering

- EE141 Engineering Electromagnetics, Fall 2006

PROFESSIONAL
EXPERIENCE

Advanced Portfolio Technologies, London, UK

Quantitative Software Developer

2004-2005

Worked under the Research and Development groups, specializing in interest rate derivatives and fixed income

SELECTED SERVICE 2019 INFORMS Healthcare Conference Committee, Chair

M&SOM Interface of Finance, Operations, and Risk Management SIG 2017 Organizing Committee, Chair

M&SOM Healthcare Operations Management SIG 2015 Organizing Committee, Member

M&SOM Meritorious Service Award 2016

Reviewer for Operations Research, Management Science, Stochastic Systems, Manufacturing and Service Operations Management, Journal of Computing, Production and Operations Management, International Federation of Automatic Control Conference, European Control Conference

- SELECTED MEDIA RECOGNITION
- ‘Parmesan: So funktioniert das Kreditgeschäft in Italien,’ *Die Welt*, Germany, October 5, 2015
 - ‘Italian bank takes cheese as collateral for loans,’ *Fox News*, July 6, 2015
 - ‘Delicious collateral: the Italian bank that loans money against cheese,’ *ABC Public Radio*, Australia, August 24, 2015
 - ‘What Air Traffic Can Teach Us About Kidney Transplants,’ *NPR’s Planet Money*, May 30, 2012.
 - ‘Can Harvard and MIT Making Organ Transplants More Efficient?’, *BusinessWeek*, December 2, 2011.
- INVITED TALKS
- University of Southern California, Marshall School of Business, Operations Management Seminar Series, 2018, Los Angeles, CA
 - Desautels Faculty of Management McGill University, Operations Management Seminar Series, 2018, Montreal, QC
 - University of Michigan’s Ross School of Business, Technology & Operations Seminar Series 2018, Ann Arbor, MI
 - Stanford Graduate School of Business, Operations, Information & Technology Seminars 2017, Stanford, CA
 - INSEAD Technology and Operations Management Seminar Series 2017, Fontainebleau, France
 - MIT Operations Research Center Seminar Series 2017, Cambridge, MA
 - Duke University, The Fuqua School of Business, Decision Sciences Seminar 2017, Durham, NC
 - Northwestern University, Kellogg School of Management, MEDS Department Operations Seminar Speaker Series 2016, Evanston, IL
 - London Business School, Management Science and Operations Seminar Series 2016, London, United Kingdom
 - Boston University, Questrom School of Business, Operations & Technology Management Seminar Series 2015, Boston, MA
 - Carnegie Mellon University, Tepper School of Business, Operations Management Seminar Series 2015, Pittsburg, PA
 - University of Toronto, Rotman School of Management, Operations Management and Statistics Seminar Series 2015, Toronto, Canada
 - MIT Sloan School Operations Management Seminar Series 2015, Cambridge, MA
 - Harvard Business School, Technology and Operations Management Unit Seminar Series 2015, Boston, MA
 - MIT Sloan School Operations Management Seminar Series 2014, Cambridge, MA

Cornell University, Seminar Series 2014, Ithaca, NY

Washington University in St. Louis, Olin Business School, The Boeing Center for Technology, Information and Manufacturing Seminar Series, 2014

University of California Berkeley, Haas School of Business, OITM Seminar Series, 2014

The University of North Carolina at Chapel Hill, STOR Colloquium 2014

Georgia Institute of Technology, H. Milton Stewart School of Industrial and Systems Engineering Seminar Series 2011, Atlanta, GA

The University of Rochester, Simon Graduate School of Business, Operations Management and Information Systems Seminar Series 2011, Rochester, NY

University of Pennsylvania, The Wharton School, Operations and Information Management Department Seminars / Conferences 2011, Philadelphia, PA

University of Maryland, Robert H. Smith School of Business, Operations Management Seminar Series 2011, College Park, MD

Harvard Business School, Technology and Operations Management Unit Seminar Series 2011, Boston, MA

Columbia Business School, Decision, Risk, and Operations Division Seminar Series 2011, New York, NY

University of Minnesota, Industrial & Systems Engineering Seminar Series 2011, Minneapolis, MN

Stanford Graduate School of Business, Operations, Information & Technology Seminars 2011, Stanford, CA

MIT Engineering Systems Division Seminar Series 2011, Cambridge, MA

NYU Stern School of Business, Department of Information, Operations, and Management Sciences Seminar Series 2011, New York, NY

The University of Chicago Booth School of Business, Operations/Management Science Workshops 2011, Chicago, IL

MIT Sloan School Operations Management Seminar Series 2010, Cambridge, MA

Microsoft Imagine Cup Software Development Competition Finals 2004, São Paulo, Brazil

MASTERS THESES
SUPERVISED

Timothy Scully
Amy Gobel
Lee Eleni Evangelakos
Kevin Edward Schell
Drew M Walker
Skyler Evan Stern
Bi Zan Valery Lorou
Jennifer Arlene Lill Collins
Nigel Min Feng Goh

PHD THESES
SUPERVISED

Jonathan Amar
Patricio Foncea (w. Vivek Farias)
Samuel Gilmour (w. Patrick Jaillet)
Do Young Yoon (primary advisor: D. Iancu)
Peter Yun Zhang (primary advisor: D. Simchi-Levi)