

Academic Affiliations

IESE Business School <i>Assistant Professor</i>	2018-present
Universitat Pompeu Fabra <i>Assistant Professor</i>	2013-2018

Education

PhD Massachusetts Institute of Technology <i>Department:</i> Electrical Engineering and Computer Science <i>Thesis:</i> Scheduling in Switched Queueing Networks with Heavy-Tailed Traffic	2008-2013
MSc University of Southern California	2006-2008
BSc National Technical University of Athens	2000-2005

Research Interests

Operations Management; Statistics and Machine Learning; Transportation Economics.

Teaching

Operations Management (MBA, PMD)
Stochastic Modeling and Optimization (PhD)

Preprints

- [3] M.G. Markakis, K. Talluri, D. Tikhonenko, "Managing Algorithm-Assisted Drivers," *submitted for publication*.
- [2] J. Chod, M.G. Markakis, N. Trichakis, "On the Learning Benefits of Resource Flexibility," *submitted for publication*.
- [1] G. Lugosi, M.G. Markakis, G. Neu, "On the Hardness of Learning from Censored Demand," *submitted for publication*.

Journal Publications

- [10] K. Bimpikis, M.G. Markakis, "Learning and Hierarchies in Service Systems," *Management Science*, 65(3), 2019.
- [9] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Delay Analysis of the Max-Weight Policy under Heavy-Tailed Traffic via Fluid Approximations," *Mathematics of Operations Research*, 43(2), 2018.
- [8] K. Bimpikis, M.G. Markakis, "Inventory Pooling under Heavy-Tailed Demand," *Management Science*, 62(6), 2016.
- [7] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Delay Stability of Back-Pressure Policies in the presence of Heavy-Tailed Traffic," *IEEE/ACM Transactions on Networking*, 24(4), 2016.

- [6] K. Jagannathan, M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Throughput Optimal Scheduling over Time-Varying Channels in the presence of Heavy-Tailed Traffic," *IEEE Transactions on Information Theory*, 60(5), 2014.
- [5] S.C. Borst, M.G. Markakis, I. Saniee, "Nonconcave Utility Maximization in Locally Coupled Systems, with Applications to Wireless and Wireline Networks," *IEEE/ACM Transactions on Networking*, 22(2), 2014.
- [4] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Max-Weight Scheduling in Queueing Networks with Heavy-Tailed Traffic," *IEEE/ACM Transactions on Networking*, 22(1), 2014.
- [3] K. Jagannathan, M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Queue Length Asymptotics for Generalized Max-Weight Scheduling in the presence of Heavy-Tailed Traffic," *IEEE/ACM Transactions on Networking*, 20(4), 2012.
- [2] M.G. Markakis, G.D. Mitsis, G.P. Papavasilopoulos, P.A. Ioannou, V.Z. Marmarelis, "A Switching Control Strategy for the Attenuation of Blood Glucose Disturbances," *Optimal Control, Applications and Methods*, 32(2), 2011.
- [1] G.D. Mitsis, M.G. Markakis, V.Z. Marmarelis, "Nonlinear Modeling of the Dynamic Effects of Infused Insulin on Glucose: Comparison of Compartmental with Volterra Models," *IEEE Transactions on Biomedical Engineering*, 56(10), 2009.

Honors and Awards

Ramon y Cajal Fellowship, <i>Spanish Ministry of Science, Innovation and Universities</i>	2018-2023
Juan de la Cierva Fellowship, <i>Spanish Ministry of Science, Innovation and Universities</i>	2016-2018
COFUND Fellowship, <i>Marie Curie Actions, European Commission</i>	2013-2016

Short-term Teaching Positions

<i>Sloan School of Management, MIT, Cambridge, MA, USA</i>	February-March 2018
<i>London Business School, London, UK</i>	October-December 2016
<i>INSEAD Business School, Singapore</i>	January-February 2016

Funded Projects (PI/co-PI)

"Information processing and resource allocation in online markets and networks," <i>Spanish Ministry of Economy and Competitiveness</i>	2017-2019
"Smart-pricing solutions to relieve traffic congestion, exploiting new inter-vehicular communication," <i>Spanish Ministry of Economy and Competitiveness</i>	2014-2016

Service

Ad hoc reviewer for *Management Science, Operations Research, Manufacturing & Service Operations Management, IEEE/ACM Transactions on Networking*.

Conference Presentations and Campus Talks

On the Learning Benefits of Resource Flexibility

INFORMS Annual Meeting, Seattle, WA, USA, October 2019.

2nd European TOM Day, London, UK, June 2019.

HEC Business School, Paris, France, April 2019.

INFORMS Annual Meeting, Phoenix, AZ, USA, November 2018.

On the Hardness of Learning from Censored Demand

StochMod Conference, Lancaster, UK, June 2018.

INSEAD Business School, Fontainebleau, France, May 2018.

Booth Business School, University of Chicago, Chicago, IL, USA, March 2018.

Sloan School of Management, MIT, Cambridge, MA, USA, February 2018

National and Kapodistrian University of Athens, Athens, Greece, January 2017

University of Manchester, Manchester, UK, December 2016

INFORMS Annual Meeting, Nashville, TN, USA, November 2016.

Imperial College London, London, UK, November 2016.

Learning and Hierarchies in Service Systems

ESADE Business School, Barcelona, Spain, January 2018.

IESE Business School, Barcelona, Spain, December 2017.

INFORMS Annual Meeting, Nashville, TN, USA, November 2016.

London Business School, London, UK, November 2016.

StochMod Conference, Louvain-la-Neuve, Belgium, July 2016.

Inventory Pooling under Heavy-Tailed Demand

INSEAD Business School, Singapore, February 2016.

IESE Business School, Barcelona, Spain, March 2015.

INFORMS Annual Meeting, San Francisco, CA, USA, November 2014.

Max-Weight Scheduling in Networks with Heavy-Tailed Traffic

Young European Queueing Theorists Conference, Eindhoven, The Netherlands, November 2013.

Carnegie Mellon University, Pittsburgh, PA, USA, October 2013.

Universitat Pompeu Fabra, Barcelona, Spain, January 2013.

INFORMS Annual Meeting, Phoenix, AZ, USA, October 2012.

INFOCOM Conference, Orlando, FL, USA, March 2012.

(Last Updated: October 2019)