

MICHAEL PAVLIN

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Wilfred Laurier University
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ACADEMIC POSITIONS

School of Business and Economics, Wilfrid Laurier University

Assistant Professor, Operations and Decision Sciences

July 2012-Current

Booth School of Business, University of Chicago

Postdoctoral Researcher

December 2011-October 2012

ACADEMIC AFFILIATIONS

Faculty of Applied Science and Engineering, University of Toronto

Assistant Professor (Status Only)

May 2017-Current

Faculty of Engineering, University of Waterloo

Adjunct Assistant Professor, Management Science

July 2017-Current

Faculty of Engineering, University of Waterloo

Adjunct Assistant Professor, Systems Design Engineering

November 2013-Current

EDUCATION

Rotman School of Management, University of Toronto

PhD Operations Management

May 2012

Thesis Title: "Tiered Pricing in Models of Supply Chains and Services"

Supervisor: Joseph Milner, Philipp Afèche

University of Toronto

MSc Computer Science,

October 2006

Thesis Title: "Auctions for Markets with Externalities: Applications to Routing in Wireless Networks"

Supervisor: Craig Boutilier

University of British Columbia

BSc (Honours) Computer Science

May 2002

PUBLISHED AND FORTHCOMING JOURNAL PAPERS

"Dual Bounds of a Service Level Assignment Problem with Applications to Efficient Pricing," *European Journal of Operational Research*, Forthcoming, 10.1016/j.ejor.2017.03.078

"Inverse Optimization for the Recovery of Market Structure from Market Outcomes: An Application to the MISO Electricity Market," with J. Birge, A. Hortaçsu, *Operations Research*, Forthcoming, 10.1287/opre.2017.1606

"Optimal Price-Lead Time Menus for Queueing Systems with Customer Choice: Segmentation, Pooling and Strategic Delay," with P. Afèche. *Management Science* 62.8 (2016): 2412-2436. 10.1287/mnsc.2015.2236

"When Gray Markets Have Silver Linings: All-Unit Discounts, Gray Markets and Channel Management", with M. Hu and M. Shi, *Manufacturing & Service Operations Management* 15.2 (2013): 250-262. 10.1287/msom.1120.0416

"Corporate Payout Policy, Cash Savings, and The Cost of Consistency: Evidence from a Structural Estimation," with H. Mahmudi. *Financial Management* 42.4 (2013) 843-874. 10.1111/fima.12018

PAPERS UNDER REVIEW & WORKING PAPERS

"Limits of Arbitrage in Markets with Physical and Financial Participants: A Case Study of the MISO Electricity Market," with J. Birge, A. Hortaçsu, I. Mercadal, Under first round review *Management Science*

"Service Revenue Management when Customers Prefer Groups," with M. Farahani., K. Ponnambalam, 2016

"The Contribution of Wait Times to Referral Decisions for Cataract Surgery in Ontario" With M. Araghi

WORKS IN PROGRESS

"The Boutique Telemedicine Design Model and Implementation" with J. Ho, W. Zhang

"Modeling Capacity and Wait Times in a Referral Network" With M. Araghi

"Empirical Analyses of Capacity Driven Price Differentiation in the North American Gasoline Market" with T. Chan, I. Zhu

INVITED TALKS

"Inverse Optimization for the Recovery of Market Structure from Market Outcomes: An Application to the MISO Electricity Market"

Department of Management Sciences Seminar Series, Faculty of Engineering, University of Waterloo, Waterloo, ON, September 2015

"Inverse Optimization for the Recovery of Market Structure from Market Outcomes: An Application to the MISO Electricity Market"

Midway Market Design Workshop, Becker Friedman Institute, University of Chicago, Chicago, IL, June 2014

“Exploring the Incentives of Electricity Market Participants”

KR Seminar, Dept. of Computer Science, University of Toronto, Toronto, ON, November 2012

“Exploring the Incentives of Electricity Market Participants”

AI Seminar, Dept. of Computer Science, University of Waterloo, Waterloo, ON, November 2012

“Selling Capacity: Optimizing Posted Prices for Services”

Applied Math and Industrial Engineering Seminar, York University, Toronto ON, April 2012

“Selling Capacity: Optimizing Posted Prices for Services”

Richard Ivey School of Business, University of Western Ontario, London ON, June 2011

CONFERENCE PRESENTATIONS & PROCEEDINGS (Since 2010)

“Limits to Arbitrage in Electricity Markets”

CEM Conference, Oxford UK, June 2017

“Assessing Decisions in Medical Referral Networks from Empirical Data”

POMS Annual Meeting, Seattle WA, May 2017

“Limits to Arbitrage in Electricity Markets”*

AEA Annual Meeting, Chicago IL, January 2017

“An Evaluation of the Gasoline Retail Market Using Inverse Optimization”

INFORMS Annual Meeting, Nashville TN, November 2016

“Assessing Decisions in Medical Referral Networks from Empirical Data”

INFORMS Annual Meeting, Nashville TN, November 2016

“Limits to Arbitrage in Electricity Markets”

CORS, Banff AB May 2016

“Inverse Optimization for the Analysis of Competitive Markets”

INFORMS Annual Meeting, Philadelphia, PA, November 2015

“Inverse Optimization of Energy Markets”

ISMP, Pittsburgh PA, July 2015

“Service Revenue Management When Customers Prefer Crowds”

MSOM, Toronto ON, June 2015

“Service Revenue Management in the Presence of Grouping Complementarities”*

CORS-INFORMS International Meeting, Toronto ON, June 2015

“Pricing Lead-Times with Customer Choice: Apparent Loss and Welfare”

POMS, Washington DC, May 2015

“Inverse Optimization for the Recovery of Market Structure from Energy Market Outcomes”
INFORMS Optimization Society Conference, Houston, TX, March 2014
MSOM, Seattle WA, June 2014

“The Role of Financial Players in Electricity Markets: An Empirical Analysis of MISO”*
NBER Conference on the Economics of Commodity Markets , Cambridge MA, October 2013

“Virtual Bidders and Financial Transmission Rights in the MISO Electricity Market”
IIOC, Boston MA, May 2013

“Pricing Decisions for a Service Provider Lacking Market Information”
CORS, Vancouver BC, May 2013

“Valuing Renewable Energy Resources”
INFORMS, Phoenix AZ, October 2012

“Pricing Decisions for a Service Provider Lacking Market Information”
MSOM, Ann Arbor MI, June 2011

"When Gray Markets Have Silver Linings: All-Unit Discounts, Gray Markets and Channel Management"
INFORMS, Phoenix AZ, October 2012
TADC, London Business School, London UK, May 2011
INFORMS, Austin TX, November 2010
EURO, Lisbon Portugal, May 2010

"Corporate Payout Policy, Cash Savings, and The Cost of Consistency: Evidence from a Structural Estimation"
FMA, New York NY, October 2010
EFMA, Aarhus Denmark, June 2010, Winner of best doctoral paper award
NFA, Winnipeg MB, September 2010

PEER REVIEWED GRANTS

Social Science and Humanities Research Council of Canada (SSHRC), Insight Grant (2016-2021) \$150,320
“Analysis of Transient and Localized Market Structure in Energy Markets” Principal Investigator (with collaborators John Birge, Ali Hotaçsu)

Canadian Centre for Aging & Brain Health Innovation, SPARK Program (2017-2018) \$50,000 “GeriMedRisk, a Scalable Geriatric Pharmacology Consultation Service to Decrease Adverse Drug Events Among Seniors” Co-Investigator with J. Ho, J. Maitland, L. Thabane, M. Pavlin, J. Lee, A. Holbrook, D. Mangin

Social Science and Humanities Research Council of Canada (SSHRC), Insight Development Grant (2013-2016) \$40,339 “Network Models of Spatial Variation in Prices: Applications to Electricity and Natural Gas Markets”, Principal Investigator (with collaborators John Birge, Ali Hotaçsu)

Mitacs-Accelerate Graduate Research Internship Program (2014) \$15,000 “Choosing the game and the stakes in a casino: A service pricing problem with many substitutable services” Co-Investigator with K. Ponnambalam

AWARDS

Wilfrid Laurier University Merit Recipient (2015)
John Doukas Best Doctoral Paper Award, EFMA (2010)
University of Toronto Graduate Scholarship (2006-Present)
NSERC Post Graduate Scholarship- Doctorate (2006-2008)
NSERC Post Graduate Scholarship- Masters (2004-2006)
IRIS-Precarn Scholar (2005)
Ontario Graduate Scholarship (2003 refused)
NSERC Undergraduate Student Research Award (2001)

STUDENT SUPERVISION

Alireza Azimian, PhD, Wilfrid Laurier University, In progress, Committee member
Maryam Hafezi, PhD, Wilfrid Laurier University, Comp. September 2016, Committee member
Tannaz Mahootchi, PhD (Gold Medal Winner), Wilfrid Laurier University, Comp. September 2014, Committee member
Ian Zhu, MAsc, University of Toronto, In progress, Co-Supervisor
Chen Di, MAsc, University of Waterloo, Comp. Aug 2017, Reader
Mohammadreza Farahani, MAsc, University of Waterloo, Comp. May 2015, Co-Supervisor
Wensi Zhang, MSc, Wilfrid Laurier University, Comp. August 2016, Supervisor
Roozbeh Youssefi, MSc, Wilfrid Laurier University, Comp. September 2015, Supervisor
Jasmine Feng, MSc, Wilfrid Laurier University, Comp. August 2014, Committee member
Shahab Bachary, MSc, Wilfrid Laurier University, Comp. August 2014, Committee member
Amir Hejazi, MSc, Wilfrid Laurier University, Comp. August 2013, Committee member
Chadwick Poon, MBA Directed Study (BU690), Wilfrid Laurier University, Comp. August 2016, Supervisor
Rui Wang, MBA Directed Study (BU690), Wilfrid Laurier University, Comp. August 2017, Supervisor

TEACHING

Instructor - Wilfrid Laurier University	
BU275: Business Decision Models	2012-2013, 2014-2015, 2015-2016
BU495Q: Business Analytics	2014-2015, 2015-2016, 2016-2017
BU665: Business Analytics	2015-2017, 2016-2017

New course development – Wilfrid Laurier University
BU425: Business Analytics (previously BU495Q)

PROFESSIONAL EXPERIENCE

WeTXT	Toronto, ON
Software Developer	August 2006-February 2007
CombineNet	Pittsburgh, PA
Software Engineer	February 2003-May 2004

Prostate Centre, University Health Network
Software Consultant
Laboratory for Computational Intelligence, UBC
Research Assistant

Toronto, ON
October 2002-February 2003
Vancouver, BC
May-August 2002

PROFESSIONAL ACTIVITIES

Council Member: Canadian Operations Research Society 2015-2017

General Member: CORS, INFORMS, POMS

Ad-Hoc Reviewer: Journal of Political Economy (2016), Management Science (2017,2016,2014), Operations Research (2016,2015), Production and Operations Management (2015,2014,2014), Naval Research Logistics (2014), RAND Journal of Economics (2013), Manufacturing & Services Operations Management (2017,2011), Omega (2014,2012), The Engineering Economist (2012), International Journal of Industrial and System Engineering (2011)

Grant Reviewer: SSHRC Insight Development Grants Adjudication Committee April-May 2015

SSHRC Insight Development Grants Adjudication Committee April-May 2017

National Science Foundation (NSF) Proposal Review, September 2016

NSERC Discovery Grant Reviewer, January 2017

Service: Wilfrid Laurier University, SBE Awards Committee 2012-2013, SBE Nominations Committee 2013-2015, SBE PhD Curriculum Committee 2014-2017