

Tatsiana Levina

Associate Professor | Management Analytics
Smith School of Business, Queen's University
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EDUCATION

2004 Ph.D. Management

School of Business, Rutgers, The State University of New Jersey, NJ

2004 MBA

School of Business, Rutgers, The State University of New Jersey, NJ

1998 M.S. in Economics and Management

Institute of Modern Knowledge, Minsk, Belarus

ACADEMIC AND TEACHING EXPERIENCE

2018-2021 Director, Global Master of Management Analytics, Smith School of Business

2011-present Associate Professor (with tenure), Smith School of Business, Queen's University

2008-2011 Assistant Professor (tenure-track), Smith School of Business, Queen's University

2004-2008 Assistant Professor (adjunct appointment), Smith School of Business, Queen's University

2001-2002 Teaching Assistant, Department of Management Science and Information Systems, Rutgers University

2000-2001 Research Assistant, Department of Accounting and Information Systems, Rutgers University

RESEARCH INTERESTS

Revenue Management and Dynamic Pricing

Consumer Behavior Modeling

On-line Learning algorithms

Portfolio Analysis

AWARDS and HONORS

- 2017- 2021 NSERC Collaborative Research and Discovery Grant (2018-2021)
- 2016-2018 Scotiabank Scholar (\$10,000)
- 2011-2015 Group Discovery Grant (with J.McGill and M. Nediak), Natural Sciences and Engineering Research Council of Canada, \$145,000.
- 2009 Co-winner 2009 INFORMS COIN-OR Cup
- 2009-2011 Research Initiation Grant, Queen's University, Kingston, ON
- 2007-2010 Group Discovery Grant (with J.McGill and M. Nediak), Natural Sciences and Engineering Research Council of Canada, \$51,000.
- 2007 General Research Grant, \$1,500
- 2006-2007 DI. McLeod Term Research Grant (with Y.Levin, J.McGill, and M. Nediak), Queen's School of Business, \$1,800
- 2006 Best paper within the track "Location and Dynamic Pricing" of INCOM 2006, Saint Etienne, France (with Y. Levin, J. McGill and M. Nediak)
- 2004-2006 Research Initiation Grant, Queen's University, Kingston, ON
- 2002-2003 Doctoral Fellowship, Graduate School of Management, Rutgers University

JOURNAL ARTICLES PUBLISHED OR ACCEPTED

- Levina, T., Y. Levin, J. McGill and M. Nediak. (2015) Strategic Consumer Cooperation in a Name-Your-Own-Price Channel, *Production and Operations Management*. 24 (12) 1883–1900.
- Levina, T., Levin, Y., McGill, J., and Nediak, M. (2011) Network Cargo Capacity Management, *Operations Research*, 59 (4), 1008-1023.
- Levina, T., Levin, Y., McGill, J., Nediak, M., and Vovk, V. (2010) Weak Aggregating Algorithm for the Distribution-Free, Multi-period, Newsvendor Problem. *Operations Research Letters*, 38 (6), 516-521.
- Levina, T., Levin, Y., McGill, J., and Nediak, M. (2009). Dynamic Pricing with Online Learning and Strategic Consumers: an Application of the Aggregating Algorithm, *Operations Research*, 57(2), 327-341.
- Levina, T. and Shafer, G. (2008). Portfolio Selection and Online Learning, *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, 16(4), 437-473.
- Levina, T., Levin, Y., McGill, J., and Nediak, M. (2007). Linear Programming with Online Learning. *Operations Research Letters*, 35, 612-618.

Levina, T., Online Methods for Portfolio Selection (2006). *In Business Applications and Computational Intelligence*. (Eds: K.Voges & N.Pope). Idea Group Inc., (refereed chapter)

Levina, T., Levin, Y., McGill, J., and Nediak, M. Dynamic Pricing with Online Learning of General Reservation Price Distribution, Refereed *Proceedings of INCOM 2006: 12th IFAC Symposium on Information Control Problems in Manufacturing*. Saint-Etienne, France, 2006.

PAPERS UNDER REVIEW/ WORK IN PROGRESS

Wang, J., Levina, T., Levin, Y., and Nediak, M. Dynamic Pricing and Social Media Management. Under revision

Machine Learning Techniques for Customer Analytics

Learning in Discrete Choice Models of Consumer Behaviour

Online customer-product recommendation engine for relationship managers

INVITED TALKS

Can Strategic Consumers Benefit from Cooperation and Information Exchange? Invited Seminar. Rotman School of Management, University of Toronto, April 9, 2010.

MAJOR CONFERENCE PRESENTATIONS

Levina, T., Levin, Y., Nediak, M., and Wang, J. (2015). Dynamic Pricing with Social Learning and Risk-Sensitive Consumers". Invited Paper. CORS/INFORMS Joint International Meeting, Montreal, QC, June 14-17, 2015

Levina, T., Levin, Y., Nediak, M. and Wang, J. (2014). Dynamic Pricing with Strategic Consumers and Social Learning. Invited Paper:

- INFORMS Annual Meeting, San Francisco, November 9-11, 2014
- IFORS, Barcelona, July 13-18, 2014

Levina, T., Levin, Y., McGill, J., and Nediak, M. (2013). Strategic Consumer Cooperation in a NYOP Channel. Invited Talk. 26th EURO-INFORMS Joint International Conference, Rome, July 1-4, 2013

Levina, T., Levin, Y., McGill, J., and Nediak, M. (2011). Strategic Bidders Club: Implications for Consumer Learning. Invited Talk. INFORMS Annual Meeting, Charlotte, November 12-14, 2011

Levina, T., Levin, Y., McGill, J., and Nediak, M. (2010). Can Strategic Consumers Benefit from Cooperation and Information Exchange? INFORMS Revenue Management and Pricing Conference RM-10, Cornell University, June, 2010.

Levina, T., Levin, Y., McGill, J., and Nediak, M. (2010). Strategic Bidders Club: Implications for Consumer Learning.

- MSOM conference (refereed), Haifa, Israel, June 28-29, 2010
- EURO XXIV, Lisbon, Portugal, July 11-14, 2010.

Levina, T., Levin, Y., McGill, J., Nediak, M., and Vovk, V. (2009). Aggregating Algorithm for Pricing and Capacity Planning under Uncertain Demand.

- Invited Paper - European Conference on OR (EURO XXIII), Bonn, Germany, July 5-8, 2009
- Invited Paper - INFORMS Annual Meeting, San Diego, October 11-14, 2009
- Invited Paper - CORS Annual Meeting, Toronto, ON, June 14-17, 2009.

Levina, T., Levin, Y., McGill, J., and Nediak, M. (2008). Linear Programming with Online Learning. Invited Paper - INFORMS Annual Meeting, Washington DC, October 12-15, 2008

Levina, T., Y. Levin, J. McGill and M. Nediak. The State of Research in Air Cargo Capacity Management. INFORMS Annual Conference, Washington D.C., October 12-15, 2008.

Levina, T., Levin, Y., McGill, J., and Nediak, M. (2007). Cargo Capacity Management on a Network.

- Invited Paper. INFORMS Annual Meeting, Seattle, November 4-7, 2007.
- Invited Paper. 22nd European Conference on OR (EURO XXII), Prague, July 8-11, 2007.
- Seventh Annual Revenue Management and Pricing Conference, Barcelona, June 28-29, 2007.

Levina, T., Levin, Y., McGill, J., and Nediak, M. . Derivative-free Optimization in Revenue Management. Second MPS International Conference on Continuous Optimization, Hamilton, August 13-16, 2007.

Levina, T., Y. Levin, J. McGill and M. Nediak. Dynamic pricing with online learning and strategic consumers, INFORMS Annual Meeting, Pittsburgh, November 5-8, 2006

Levina, T., Levin, Y., McGill, J., and Nediak, M. . Dynamic Pricing with Online Learning of General Reservation Price Distribution. 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2006), Saint-Etienne, France, May 17-19, 2006.

Levina, T., Levin, Y., McGill, J., and Nediak, M. Online learning for dynamic pricing in the presence of strategic consumers.

- Invited Paper - INFORMS International Conference, Hong Kong, June 25-28, 2006
- Joint Conference of CORS and Optimization Days, Montreal, May 8-10, 2006

Levina, T., Levin, Y., McGill, J., and Nediak, M. Dynamic Pricing with Online Learning and Strategic Consumers.

- Canadian Operational Research Society (CORS) National Conference, Halifax, May 2005
- INFORMS Annual Meeting, San Francisco, November 2005.

Student supervision

Alexander James, M.Sc. in Management Science, supervisor
 Sam Kirshner, PhD in Management Science, committee member
 Jue Wang, PhD in Management Science, committee member

PROFESSIONAL SERVICE

Elected CORS councilor 2015 -2017

Treasurer of the Kingston section of Canadian Operational Research Society (CORS), 2010-2019

Revenue Management cluster co-organizer for 27th EURO-INFORMS Joint International Conference, July 12-15, 2015, Glasgow, UK

Revenue Management cluster co-organizer for 26th EURO-INFORMS Joint International Conference, July 1-4, 2013, Rome, Italy

Revenue Management cluster co-organizer for 25th European Conference in OR (EURO XXV), July 8-12, 2012, Vilnius, Lithuania

Revenue Management cluster co-organizer for Canadian Operational Research Society (CORS), St. John's, May 2011

Treasurer of the Kingston section of Canadian Operational Research Society (CORS), 2010-present

Session co-organizer on "Behavioral Models in Revenue Management" for EURO XXIV Annual Meeting in Lisbon, Portugal, July 2010

Session organizer on "Learning/Robust Methods for Pricing and Capacity Control" for INFORMS Annual Meeting, San Diego, October 2009

Referee for Production and Operations Management, European Journal of Operational Research, Omega, The International Journal of Management Science, Business Applications and Computational Intelligence, NSERC applications.

INTERNAL SERVICE

Faculty Development Fund Committee Member 2005-2008

Research Committee 2008-2009

Review Tenure and Promotion Committee 2009-2010, 2015-2016, 2018-2019

Faculty Board Appeal Committee Member 2008-2011

Assessed student awards applications at Queen's University 2005-2007, 2009, 2010, 2014, 2015, 2018

Read Personal Statement of Experience for the COMM class of 2014, class of 2018

Academic Progress Committee Member 2013-2015

Review Tenure and Promotion Committee 20015-2016

Undergraduate Curriculum Committee 2016-2017

Certificate in Business Committee 2017-2019

PROFESSIONAL MEMBERSHIPS

Institute for Operations Research and Management Science (INFORMS)

Canadian Operations Research Society (CORS)

Updated January 31, 2022