

Lennart Baardman

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Employment

University of Michigan, Ross School of Business , Ann Arbor, MI <i>Assistant Professor of Technology and Operations</i>	2019–Present
Massachusetts Institute of Technology , Cambridge, MA <i>Research and Teaching Assistant</i>	2014–2019
Adobe Systems Incorporated , San Jose, CA <i>Data Scientist Intern</i>	2017
ABN AMRO Commercial Finance N.V. , 's Hertogenbosch, Netherlands <i>Data Scientist Intern</i>	2013
University of Groningen , Groningen, Netherlands <i>Research and Teaching Assistant</i>	2011-2013

Education

Massachusetts Institute of Technology , Cambridge, MA PhD in Operations Research, track in Operations Management. Thesis: <i>Analytics in Promotion Planning and Advertising</i> Advisor: Prof. Georgia Perakis	2014–2019
University of Cambridge , Cambridge, United Kingdom MASt in Mathematics. Essay: <i>Applicable Combinatorial Auctions</i>	2013-2014
University of Groningen , Groningen, Netherlands BSc in Econometrics and Operations Research, summa cum laude. Thesis: <i>Multiple Traveling Salesman Problem with Equal Visits: An Application to AS/RS Scheduling</i> Advisor: Prof. Kees Jan Roodbergen	2010-2013

Papers Publications

- L. Baardman, S. Borjian Boroujeni, T. Cohen-Hillel, K. Panchamgam, G. Perakis (2020) Detecting Customer Trends for Optimal Promotion Targeting. Accepted for publication in *Manufacturing & Service Operations Management*.
- First place in POMS College of Supply Chain Management Best Student Paper Award (2019)
 - Honorable mention in MSOM Practice-Based Paper Competition (2019)
 - Finalist in INFORMS Innovative Applications in Analytics Award (2020)
 - Finalist in INFORMS Service Science Cluster Best Paper Award (2019)
 - Finalist in INFORMS Social Media Analytics Best Student Paper Award (2019)
 - Finalist in POMS-JD.com Best Data-Driven Research Paper Competition (2019)

L. Baardman, M.C. Cohen, K. Panchamgam, G. Perakis, D. Segev (2019) Scheduling Promotion Vehicles to Boost Profits. *Management Science* 65(1):50-70.

- First place in INFORMS Service Science Cluster Best Paper Award (2016)

L. Baardman, K.J. Roodbergen, H.J. Carlo (2016) Job Sequencing in a Miniload System. *14th IMHRC Proceedings, Karlsruhe*.

Papers Under Review

L. Baardman, I. Levin, G. Perakis, D. Singhvi (2017) Leveraging Comparables for New Product Sales Forecasting. Major revision in *Operations Research*.

- First place in POMS Applied Research Challenge (2018)
- First place in POMS College of Supply Chain Management Best Student Paper Award (2018)
- Honorable mention in MIT Operations Research Center Best Student Paper Competition (2018)

L. Baardman, K.J. Roodbergen, H.J. Carlo (2017) A Special Case of the Multiple Traveling Salesman Problem in End-of-aisle Picking Systems. Major revision in *Transportation Science*.

L. Baardman, K. Panchamgam, G. Perakis (2018). Pass-through Constrained Vendor Funds for Promotion Planning. Major revision in *Manufacturing & Service Operations Management*.

L. Baardman, E. Fata, A. Pani, G. Perakis (2018) Learning Optimal Online Advertising Portfolios with Periodic Budgets. Submitted to *Operations Research*.

- Finalist in INFORMS Service Science Cluster Best Student Paper Award (2019)
- Finalist in George Nicholson Student Paper Competition (2018)

L. Baardman, M.C. Cohen, K. Panchamgam, G. Perakis (2019) Upgrading Promotions Using Business Analytics. Minor revision in *Management Business Review*.

Papers In Progress

L. Baardman, E. Fata, A. Pani, G. Perakis. Dynamic Creative Content Optimization in Online Display Advertising. Work in progress.

L. Baardman, T. Cohen-Hillel, G. Perakis. Trade Funds from the Manufacturer's Perspective: Joint Demand Forecasting and Dynamic Pricing. Work in progress.

Patents Publications

US20190066128A1 - L. Baardman, S. Borjian Boroujeni, T. Cohen-Hillel, K. Panchamgam, G. Perakis (2019) Computer System and Method to Predict Customer Behavior Based on Inter-Customer Influences and to Control Distribution of Electronics Messages. Application published in February 2019.

Teaching Experience

University of Michigan, Ann Arbor, MI

Instructor for *TO 640 Big Data Management Tools and Techniques* (2020 Winter: 4.7/5)

Instructor for *TO 899 Doctoral Seminar in Technology and Operations* (2019 Fall: 5/5)

Massachusetts Institute of Technology, Cambridge, MA

Teaching Assistant for *15.764 Data, Models, and Decisions for Executive MBA* (2016 Spring: 6.66/7, 2017 Spring: 6.56/7, 2018 Spring: 6.78/7)

University of Groningen, Groningen, Netherlands

Teaching Assistant for *Hypothesis Testing* (2012 Spring, 2013 Spring)

Teaching Assistant for *Sampling and Estimation* (2012 Spring)

Teaching Assistant for *Multivariate Analysis* (2012 Spring, 2013 Spring)

Teaching Assistant for *Mathematics II for EOR* (2011 Fall)

Teaching Assistant for *Mathematics I for EOR* (2011 Fall)

Academic Service

Reviewer for Management Science, Manufacturing & Service Operations Management, Naval Research Logistics, and Operations Research

Co-chair for POMS College of Supply Chain Management Best Student Paper Award (2020)

MIT Operations Management Seminar Student Coordinator (2018 Spring)

MIT Operations Research Center Seminar Student Coordinator (2016 Fall)

Students Supervised

Zijin Zhang co-advised with Hyun-Soo Ahn (2019 – present)

Awards

Finalist in INFORMS Innovative Applications in Analytics Award (2020)

Finalist in INFORMS Service Science Cluster Best Paper Award (2019)

Finalist in INFORMS Service Science Cluster Best Student Paper Award (2019)

Finalist in INFORMS Social Media Analytics Best Student Paper Award (2019)

Honorable mention in MSOM Practice-Based Paper Competition (2019)

Finalist in POMS-JD.com Best Data-Driven Research Paper Competition (2019)

First place in POMS College of Supply Chain Management Best Student Paper Award (2019)

Finalist in George Nicholson Student Paper Competition (2018)

MIT Sloan Excellence in Teaching Award - Outstanding Teaching Assistant (2018)

First place in POMS Applied Research Challenge (2018)

First place in POMS College of Supply Chain Management Best Student Paper Award (2018)

Honorable mention in MIT Operations Research Center Best Student Paper Competition (2018)

First place in INFORMS Service Science Cluster Best Paper Award (2016)

Finalist in Facebook Fellowship (2016)

Finalist in INFORMS Revenue Management and Pricing Practice Award (2015)

Groningen University Fund-100 Prize (2013)

Member of the Honours College of the University of Groningen (2011-2013)

Presentations

L. Baardman, E. Fata, A. Pani, G. Perakis. *Learning Optimal Online Advertising Portfolios with Periodic Budgets*. Presented at MSOM 2018, Young Researchers Workshop Cornell ORIE 2018, INFORMS 2018, RMP 2019.

L. Baardman, S. Borjian Boroujeni, T. Cohen-Hillel, K. Panchamgam, G. Perakis. *Detecting Customer Trends for Optimal Promotion Targeting*. Presented at MSOM 2017, INFORMS 2017, RMP 2018, MSOM 2018, INFORMS 2018, POMS 2019, MSOM 2019, INFORMS 2019.

L. Baardman, I. Levin, G. Perakis, D. Singhvi. *Leveraging Comparables for New Product Sales Forecasting*. Presented at MSOM 2017, INFORMS 2017, ISB-POMS Workshop 2017, RMP 2018, MSOM Supply Chain Management SIG 2018, INFORMS Data Mining and Decision Analytics Workshop 2018, INFORMS 2018.

L. Baardman, K. Panchamgam, G. Perakis. *Pass-through Constrained Vendor Funds for Promotion Planning*. Presented at INFORMS 2016, MSOM 2017, INFORMS 2017.

L. Baardman, M.C. Cohen, K. Panchamgam, G. Perakis, D. Segev. *Scheduling Promotion Vehicles to Boost Profits*. Presented at ISMP 2015, INFORMS 2015, POMS 2016, RMP 2016, MSOM 2016, INFORMS 2016.

Personal

Citizenship: Netherlands

Languages: Dutch (native), English (fluent), German (basic), French (basic), Spanish (basic)

Programming: Delphi, Gurobi, HTML/CSS, Java, Julia, JuMP, LaTeX, MATLAB, Oracle SQL, Python, R

Software: AIMMS, Eviews, Microsoft Office, PlantSimulation, SPSS, Stata, Tableau