

Tamar Cohen-Hillel

CONTACT INFORMATION

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CURRENT POSITIONS

Amazon.

Postdoctoral Research Scientist

July, 2020

Developing and supporting customer side scheduling system. Managing customers' work environment. Online support for customers around the world.

EDUCATION

Massachusetts Institute of Technology, Cambridge, Massachusetts USA
Operations Research Center

PhD, Operations Research, September 2015 - Sep 2020)
GPA 5.00/5.00
Advisor: Georgia Perakis

Technion – Israel Institute of Technology, Haifa, Israel
Industrial Engineering and Management

MSc, Information Management Engineering , March 2013 - July 2015
GPA 98/100 ,**Summa Cum Laude**
Thesis: Complexity Results for Periodic Decision Problems
Advisor: Liron Yedidsion

Technion – Israel Institute of Technology, Haifa, Israel
Industrial Engineering and Management

BSc, Industrial Engineering , March 2008 - March 2013
GPA 84/100
Final project: ASAT courses forecasting tool with final grade 98 out of 100

PUBLICATIONS

PUBLISHED, ACCEPTED AND UNDER REVISION

Cohen-Hillel, T. and Yedidsion, L., 2018. **The Periodic Joint Replenishment Problem Is Strongly NP-Hard**. *Mathematics of Operations Research*, 43(4), pp.1269-1289.

- First place in Rothblum Award - ORSIS Prize for Excellence in Research in OR (2016).

Baardman, L., Borjian Boroujeni, S., Cohen-Hillel, T., Panchamgam, K. and Perakis, G., 2018. **Detecting Customer Trends for Optimal Promotion Targeting**. Accepted 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 Service Science Best Service Science Paper Award (2019).
- Finalist in POMS-JD.com Best Data-Driven Research Paper Competition (2019).
- Finalist in INFORMS Social Media Analytics Section Best Student Paper Award (2019).

Cohen-Hillel, T., Panchamgam, K. and Perakis, G., **High-Low Promotion Policies for Peak End Demand Models**, under Major revision in *Management Science*.

- First place in INFORMS Service Science Best Service Science Paper Award (2018).

SUBMITTED AND WORK IN PROGRESS

Cohen-Hillel, T., Panchamgam, K. and Perakis, G., **Bounded Memory Peak End Models Can be Surprisingly Good**, soon to be submitted.

- Finalist in POMS College of Behavior in Operations Management Junior Scholar Working Paper Competition (2019).

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

Aparicio, D. Cohen-Hillel, T. and Perakis, G., **Promotion Policies for Peak-End Demand Models: A Field Experiment**, work in progress.

Cohen-Hillel, T. Perakis, G. Spantidakis, I. and Thayaparan, L. P. G., **Joint Fulfillment and Replenishment in Omni-channel**, work in progress.

HONORS AND AWARDS

- 2019: First place in POMS College of Supply Chain Management Best Student Paper Award.
- 2019: Honorable mention in in MSOM Practice-Based Paper Competition.
- 2019: Finalist in INFORMS Service Science Best Service Science Paper Award.
- 2019: Finalist in INFORMS Social Media Analytics Section Best Student Paper Award.
- 2019: Finalist in POMS-JD.com Best Data-Driven Research Paper Competition.
- 2019: Finalist in POMS College of Behavior in Operations Management Junior Scholar Working Paper Competition.
- 2019: Nomination for the Goodwin Medal for outstanding TA.
- 2018: First place in INFORMS Service Science Best Cluster Paper Competition.
- 2016: First place in Rothblum Award - ORSIS Prize for Excellence in Research in OR.

INVITED TALKS

Baardman, L., Borjian Boroujeni, S., Cohen, T., Panchamgam, K., Perakis, G., (2019, January). **Customer-trends for Personalized Demand Estimation and Targeted Promotions**. Technion - Israel Institute of Technology, Israel.

Cohen, T., Panchamgam, K., and Perakis, G., (2018, October) **High-Low Promotion Policies for Peak End Demand Models**, Young Researchers Workshop Cornell ORIE 2018.

Cohen, T., Panchamgam, K., and Perakis, G., (2018, April) **Peak-End Demand Models and their Impact on Promotion Planning Problems**, MIT Sloan School of Management.

Cohen, T., and Yedidsion, L., (2016, January). **NP Hardness Proof for Joint Replenishment Problem**. Computer Science Department, Technion - Israel Institute of Technology, Israel.

CONFERENCE PRESENTATIONS

Cohen-Hillel, T., Panchamgam, K., and Perakis, G., **High-Low Promotion Policies for Peak-End Demand Models**.

- 2019 Manufacturing & Services Operation Management Conference in Singapore.
- 2019 Revenue Management & Pricing Conference in Palo Alto, California.
- 2019 POMS Annual Conference in Washington, D.C.

Cohen-Hillel, T., Panchamgam, K., and Perakis, G., **On the Power of Bounded Memory Peak End Demand Models.**

- 2019 POMS Annual Conference in Washington, D.C.
- 2018 INFORMS Annual Conference in Houston, Texas.

Cohen-Hillel, T., Panchamgam, K., and Perakis, G., **Peak-End Demand Models and their Impact on Promotion Optimization Problems.**

- 2018 Manufacturing & Services Operation Management Conference in Dallas, Texas.
- 2018 Revenue Management & Pricing Conference in Toronto, Canada.
- 2017 INFORMS Annual Conference in Houston, Texas.

Baardman, L., Borjian Boroujeni, S., Cohen-Hillel, T., Panchamgam, K., Perakis, G., **Customer-trends for Personalized Demand Estimation and Targeted Promotions.**

- 2019 Manufacturing & Services Operation Management Conference in Singapore.
- 2019 POMS Annual Conference in Washington, D.C.
- 2018 Manufacturing & Services Operation Management Conference in Dallas, Texas.
- 2017 INFORMS Annual Conference in Houston, Texas.
- 2017 Manufacturing & Services Operation Management Conference in Chapel Hill, North Carolina.

Cohen-Hillel, T., and Yedidsion, L., **NP-Hardness Proof for Joint Replenishment Problem.** jul

- 2016 INFORMS Annual Meeting 2016 in Nashville, Tennessee.

Cohen, T., and Yedidsion, L., **Minimize the Flow Time of Multi Stages Jobs on Multi-Purpose Machines.**

- 2015 19th Industrial Engineering and Management Conference in Tel Aviv, Israel.

Cohen, T., and Yedidsion, L., **Assigning Employees to Vacations with Additional Constraints.**

- 2014 18th Industrial Engineering and Management Conference in Tel Aviv, Israel.

TEACHING EXPERIENCE

Massachusetts Institute of Technology

Teaching assistant

January, 2017 - June, 2019

Data, models and decisions (15.730)- Executive MBA course.

Technion, Israel Institute of Technology

Teaching assistant

July, 2012 - July, 2015

Fault Tolerant Networks Protocols (97211)-Graduate level course. TA in charge.

Advanced topic in Information systems (96260) - Graduate level course. TA in charge.

Introduction to Computer Technologies (94210)- Undergraduate level course. TA in charge.

Data Structures and Algorithms (994223)- Undergraduate level course. TA in charge.

Introduction to Scheduling (96326) - Graduate level course. TA in charge.

Operation of Production Service Systems (94142) - Undergraduate level course.

ASAT- Technion Student Association

Teacher in ASAT pre-test preparation classes

September, 2008 - February, 2010

Teaching a class of 40 students and preparing them for final exams in basic and advanced programming courses.

Pre-college Preparation Class

September, 2010 - October, 2010

Teaching a class of 40 students and preparing them for programming courses in the first year at the Technion.

PROFESSIONAL
SERVICE

- Reviewer for Operations Research and Management Science
- Student coordinator for the MIT Sloan OM Seminar series (2018-2019)
- Student coordinator for the MIT ORC Seminar series (2018)
- Officer at the INFORMS student chapter at MIT (2016-2017)

PROFESSIONAL
EXPERIENCE

TEVA

Programmer for consultation project for TEVA **July, 2013 - November, 2013**
Developing and implementing an assignment algorithm with constraints.

Intel Corp.

System admin, customer side developer **February, 2010 - January, 2013**
Developing and supporting customer side scheduling system. Managing customers' work environment. Online support for customers around the world.

SKILLS

- Programming : MATLAB, Python, Perl, C, C++, R, Julia, SQL
- Languages: English, Hebrew

CITIZENSHIP

United States, Israel