MELDA ORMECI MATOGLU

University of New Hampshire
Peter T. Paul College of Business and Economics
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EXPERIENCE

2014 - Present	**University of New Hampshire** **Peter T. Paul College of Business and Economics** Assistant Professor
2009 - 2013	**Ozyegin University, Istanbul, TURKEY** The Faculty of Economics and Administrative Sciences Assistant Professor
2006 - 2008	**Georgia Institute of Technology, Atlanta, Georgia** Research Engineer

EDUCATION

PhD in Industrial and Systems Engineering
Georgia Institute of Technology, Atlanta, Georgia
Manufacturing and Logistics Track
Thesis: Inventory Control In A Build-To-Order Environment
Second place in George B. Dantzig Dissertation Award

Master of Science at Industrial and Systems Engineering
Georgia Institute of Technology, Atlanta, Georgia
Manufacturing and Logistics Track

Bachelor of Science in Industrial Engineering
Bogazici University, Istanbul, Turkey

PUBLICATIONS

Journal Publications:

Melda Ormeci Matoglu. Why is Managing Capacity So Difficult? Main Challenges and Solutions. *Rutgers Business Review* (6):276-286, 2021.

Melda Ormeci Matoglu, John H Vande Vate, Haiyue Yu. The Economic Average Cost Brownian Control Problem. *Advances in Applied Probability*. 51 (1):300-337, 2019.

O. Orsan Ozener, Melda Ormeci Matoglu, Gunes Erdogan, Mohamed Haouari, Hasan Sozer. Solving a Large-Scale Integrated Fleet Assignment and Crew Pairing Problem. *Annals of Operations Research*, 253: 477-500, 2017.

Melda Ormeci Matoglu, John H. Vande Vate, Huizhu Wang. Solving the Drift Control Problem. *Stochastic Systems*, 5 (2): 324–371, 2015.

Gunes Erdogan, Mohamed Haouari, Melda Ormeci Matoglu, O. Orsan Ozener. Solving a Large-Scale Crew Pairing Problem, *Journal of the Operational Research Society*, 66:1742–1754, 2015.

Melda Ormeci Matoglu, John H. Vande Vate. Drift Control with Changeover Costs, *Operations Research*, 59: 427-439, 2011.

Melda Ormeci, Jim Dai, John H. Vande Vate. Impulse Controlled Brownian Motion: Constrained Average Cost Case, *Operations Research*, 56: 618-629, 2008.

Book Chapters:

Melda Ormeci Matoglu, John H. Vande Vate. Build-To-Order Meets Global Sourcing: Planning Challenge for the Auto Industry. In Planning Production and Inventories in the Extended Enterprise: A State of the Art Handbook, Volume 2. Editors: K. Kempf, P. Keskinocak, and R. Uzsoy. New York: Springer. 231-248, 2011.

Conference Proceedings:

Melda Ormeci Matoglu, John H. Vande Vate. Managing Capacity with Drift Control. MSOM Annual Conference Proceedings, New York, 2012. (refereed)

Melda Ormeci Matoglu, John Vande Vate. Drift Managing Capacity by Drift Control [online].In Barnhart, C., Clausen, U., Lauther, U., Moehring, R. eds.: Models and Algorithms for Optimization in Logistics. Number 09261 in Dagstuhl Seminar Proceedings, Internationales Begegnungs- und Forschungszentrum (IBFI), Schloss Dagstuhl, Germany (2009).
<http://drops.dagstuhl.de/opus/volltexte/2009/2159>

Melda Ormeci. Inventory Control in a Build-to-Order Environment. 2006 Manufacturing and Service Operations Management Conference Proceedings, Atlanta, 2006 (refereed).

TECHNICAL PRESENTATIONS[1]

Melda Ormeci Matoglu, John H Vande Vate. On the Optimality of (s,S) policies. POMS International Conference, Paris, France, July, 2023.

Melda Ormeci Matoglu, John H Vande Vate. On the Optimality of (s,S) Policies for Managing Capacity, Inventory and Backorders. POMS Annual Meeting, Orlando, FL, May 2023.

Melda Ormeci Matoglu, John H Vande Vate. On the Optimality of (s,S) Policies for Managing Capacity, Inventory and Backorders. University of Florida, Industrial Engineering department Seminar Series, April 2023.

Melda Ormeci Matoglu, John H Vande Vate. Managing Capacity under Uncertainty: Multiple Rate Case. INFORMS Annual Meeting (Virtual), October 2020.

Melda Ormeci Matoglu. Managing Capacity under Uncertainty, University of Massachusetts - Amherst. Isenberg School of Management, Stochastic Systems Seminar, 2020.

Melda Ormeci Matoglu, John H Vande Vate, Haiyue Yu. Managing Capacity in Face of Uncertainty. INFORMS Annual Meeting, Seattle, October 2019.

Melda Ormeci Matoglu, John H Vande Vate, Haiyue Yu. The Economic Average Cost Brownian Control Problem. POMS Annual Conference, Washington D.C. May 2019.

[1] Presenting author in boldface

Melda Ormeci Matoglu. Managing production and buffer size with drift control. INFORMS Applied Probability Society Conference, Evanston, 2017.

Melda Ormeci Matoglu. Optimal Capacity Management with Limited Buffer. INFORMS Annual Meeting, Nashville 2016.

Melda Ormeci Matoglu. Managing Capacity with Optimal Buffer Size Selection. INFORMS Annual Meeting, Philadelphia, 2015.

Melda Ormeci Matoglu, John H. Vande Vate. Managing Capacity with drift control. INFORMS Applied Probability Society Conference, Istanbul, 2015.

Melda Ormeci Matoglu. Managing Production and Capacity with Drift Control. POMS 26th Annual Conference, Washington D.C., 2015.

O. Orsan Ozener, **Melda Ormeci Matoglu**, Gunes Erdogan, Mohamed Haouari. Solving a Large Scale Integrated Airline Planning. INFORMS Annual Meeting, Minneapolis, MN 2013.

Gunes Erdogan, Mohamed Haouari, **Melda Ormeci Matoglu**, O. Orsan Ozener. Solving a Large-Scale Crew Pairing Problem, YAEM 2013/ International IIE, Istanbul, 2013.

Gunes Erdogan, Mohamed Haouari, **Melda Ormeci Matoglu**, O. Orsan Ozener. Solving The Turkish Crew Scheduling Problem. INFORMS Annual Meeting, Phoenix, AZ 2012.

Melda Ormeci Matoglu, John H. Vande Vate. Managing Capacity with drift control. MSOM Annual Conference, New York, 2012.

Gunes Erdogan, Mohamed Haouari, **Melda Ormeci Matoglu**, O. Orsan Ozener. Solving the Turkish Crew Scheduling Problem, 25th Conference of European Chapter on Combinatorial Optimization (ECCO), Antalya, Turkey, 2012.

Melda Ormeci Matoglu, John H. Vande Vate. Solving the Drift Control Problem. INFORMS Annual Meeting, Charlotte, NC, 2011.

Melda Ormeci Matoglu, John H. Vande Vate. Managing Capacity in a Build-To-Order Environment. ALIO- INFORMS Joint International Meeting, Argentina, 2010.

Melda Ormeci Matoglu, John H. Vande Vate. Managing Capacity: An LP Based Solution to a Brownian Drift Control Problem. YAEM National Conference, Istanbul, 2010.

Melda Ormeci Matoglu, John H. Vande Vate. Impulse Drift Control with Changeover Costs. INFORMS Annual Meeting, San Diego, 2009.

Melda Ormeci Matoglu. Drift Managing Capacity by Drift Control. Dagstuhl Seminar (Invitation only seminar), Schloss Dagstuhl - Leibniz Center for Informatics, Germany, 21-26 June 2009.

Melda Ormeci. Related Problems in Inventory Control in a Build-to-Order Environment. Bell Laboratories, Dublin, Ireland, 2007.

Melda Ormeci. Inventory Control in a Build-to-Order Environment, (Dantzig Dissertation Award Session), INFORMS National Conference, Pittsburgh, 2006.

Melda Ormeci. Inventory Control in a Build-to-Order Environment, (refereed) 2006 Manufacturing and Service Operations Management Conference, Atlanta, 2006.

Melda Ormeci. Inventory Control in a Build-to-Order Environment, ORCIBS Seminar, Koc University, Istanbul, 2006.

Melda Ormeci, Jim Dai, John H. Vande Vate. Impulse Controlled Brownian Motion: Constrained Average Cost Case, INFORMS Annual Meeting, San Francisco, 2005.

Melda Ormeci, Jim Dai, John H. Vande Vate. Optimality of Control Band Policies for Impulse Controlled Brownian Motion, IIE Annual Conference, Atlanta, 2005.

FUNDED RESEARCH AWARDS

- Excellence in Business Analytics Research Grant, 2021
- DS Department Summer Research Grant, Summer 2020
- DS Department Summer Research Grant, Summer 2019
- DS Department Summer Research Grant, Summer 2017
- DS Department Summer Research Grant, Summer 2016
- DS Department Summer Research Grant, Summer 2015
- National Science Foundation, CMMI-Operations Research, Stochastic Control in Semi-conductor Supply Chain. $ 479,955, 9/1/2008-8/31/2011. (With John Vande Vate and Jim Dai)
- TUBITAK 1001, MAG: Crew Pairing and Fleet Assignment Models at Turkish Airlines. $115,000. 12/1/2010 -12/31/2013 (With O. Orsan Ozener and Gunes Erdogan)

AWARDS AND HONORS

- Peter T. Paul College, Excellence in Research Award Nomination at UNH, 2019, 2020.
- Second Place in George B. Dantzig Dissertation Award (2006)
- Selected for INFORMS Doctoral Colloquium, Atlanta (2003)
- Served in the Graduate Student Advisory Committee, ISyE, Georgia Institute of Technology (2003-2005)
- Fulbright Scholarship for Master's degree (2000)

PROFESSIONAL/SCIENTIFIC AFFILIATIONS AND SERVICES

- Member, The Institute of Operations Research and the Management Sciences (INFORMS)
- Member, Production and Operations Management Conference (POMS)
- Ad hoc reviewer for *Operations Research*, Management Science, Mathematics of Operations Research, *Transportation Research Part B, Journal of the Operational Research Society, Stochastic Processes and their Applications, Computers and Operations Research, Applied Mathematics and Optimization, European Journal of Industrial Engineering*
- Track Chair, (responsible for putting together Global Supply Chain Track) at AMA (American Marketing Association) Global Marketing SIG Conference: 2019, 2022.
- AMA Global Marketing SIG Conference, reviewer: 2019, 2022.

University Level:

- 2018-2023 Paul URC Committee Chair

College Level:

- 2017, 2018 Judge at Paul URC
- 2017-2018 ADMN 940- MBA Core Redesign Taskforce representative
- 2016-2023 Paul College URC Committee-Decision Sciences representative

Department Level:

- 2022-2023 Member of Decision Sciences Department Faculty Search Committee (2 pos.)
- 2021-2022 Member of Decision Sciences Department Lecturer Promotion Committee
- 2021-present Assurance of learning contributor for DS806
- 2020-2023 MSBA Admissions Committee
- 2020-2021 Member of Decision Sciences Department Faculty Search Committee (2 pos.)
- 2019-2020 Member of Decision Sciences Department Faculty Search Committee
- 2019 Business Analytics Symposium Co-Organizer
- 2018-2020 Assurance of learning coordinator for ADMN 940, and contributor 2018-2023
- 2017-2022 Assurance of learning coordinator for ADMN 580, and contributor 2017-2022
- 2017-2018 Member of Decision Sciences Department Faculty Search Committee: Business Analytics/Management Science position
- 2017-2018 Member of Decision Sciences Department Faculty Search Committee: Business Analytics/Information Systems position
- 2015-2016 Served together with Decision Sciences Department Faculty Search Committee in interviewing candidates to select candidates campus visits

TEACHING

Paul College:

ADMN 875, Prescriptive Analytics (MBA-Online, Spring 2022-present)
DS 806, Optimization Methods 1 (MSBA, 2021-present)
ADMN 940, Managing Operations (MBA, Full time (2017-2019)
ADMN 940, Managing Operations (MBA, Online, 2017-present)
ADMN 580, Quantitative Decision Making (UG, 2014-2021)

Teaching prior to joining UNH:

ADMN 420, Business Statistics (UG, 2013-2014) as Adjunct Faculty at Paul College, UNH
OPER 312, Supply Chain Management, Ozyegin University (UG, 2013)
IE 301, Operations Research 2, Ozyegin University (UG,2011-2013)
MATH 202 Statistics for Social Sciences, Ozyegin University (UG, 2010-2011,2013)
OPM 732, Supply Chain Management, Ozyegin University (MBA, 2012)
OPER 202, Operations Management, Ozyegin University (UG,2010-2013)
SEC 401, Sectoral Project advising, Ozyegin University (UG, 2012-2013)

Executive Teaching:

Productivity, Management Trainee Program, Vestel Corporation (consumer electronics, appliances, and IT with +$4bn annual revenue), 2012, 2013.

INDIVIDUAL STUDENT GUIDANCE

PhD STUDENTS, Committee Member:

Ertan Yakici, Revenue Management via Optimal Dynamic Switching Times. Industrial Engineering, METU, Ankara, Turkey, 2013.

MASTER STUDENTS, Committee Member:

Thomas Drtil, The impacts of “Ship-to-Average” Policies on Supplier Relationships and Material Planning in an Automotive Build-to-Order Environment. ISYE, Georgia Institute of Technology, 2006.

Stefan Lier, Evaluating Supply Policies in an Automotive Build-to-Order Environment. ISYE, Georgia Institute of Technology, 2006.

Matthias Pauli, Finding Optimal Parameters of “Ship-to-Average” Policies in an Automotive Build-to-Order Environment. ISYE, Georgia Institute of Technology, 2006.

Claus Reeker, Implementing “Ship-to-Average” Policies in an Automotive Build-to-Order Environment. ISYE, Georgia Institute of Technology, 2006.

MBA-Capstone Project Supervision:
Iryna Vazhnova, MBA, (Co-supervised with Erik den Hartigh), *Analysis of successful Supply Chain: Arcelik A.S.*, 2013.