

Michael L. Hamilton

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Latest updated: Dec. 2025

EMPLOYMENT

University of Pittsburgh

Katz Graduate School of Business

Pittsburgh, PA

2019 –

- Assistant Professor of Business Analytics and Operations

EDUCATION

Columbia University

Ph.D. in Operations Research

New York, NY

2014 –2019

- Advisor: Adam N. Elmachtoub
- Thesis: Pricing Tools and Analysis for Emerging e-Commerce Technologies

Rutgers University

B.S. in Mathematics

New Brunswick, NJ

2010 –2014

- Minors: Computer Science, Operations Research

PUBLICATIONS

1. Titing Cui, Michael L. Hamilton. *Optimal Feature-Based Market Segmentation and Pricing*. Accepted at **Operations Research**. Sept. 2025
 - Accepted to the 18th Conf. on Web and Internet Economics (**WINE**), 2022.
 - Third Place, INFORMS Service Science Best Cluster Paper Award, 2022.
2. Adam N. Elmachtoub, Vishal Gupta, Michael L. Hamilton. *The Value of Personalized Pricing*. **Management Science** Apr. 2021
 - Accepted to the 15th Conf. on Web and Internet Economics (**WINE**), 2019.
 - Finalist, INFORMS Service Science Best Cluster Paper Competition, 2018.
3. Adam N. Elmachtoub, Michael L. Hamilton. *The Power of Opaque Products in Pricing*. **Management Science** Jan. 2021
 - Accepted to the 13th Conf. on Web and Internet Economics (**WINE**), 2017.
 - Feature article, discussion in Management Science Review
4. Ningyuan Chen, Adam N. Elmachtoub, Michael L. Hamilton, Xiao Lei. *Loot Box Pricing and Design*. **Management Science** Dec. 2020
 - Accepted to the 21st ACM Conf. on Economics and Computation (**EC**), 2020.
 - Finalist, 2021 CSAMSE Conference Best Paper Award.
 - Winner, 2019 IBM Best Student Paper Award in Service Science.
 - Presented at Federal Trade Commission (FTC) Workshop on Consumer Issues Related to Loot Boxes, 2019.

WORKING PAPERS

Note: All author ordering is alphabetical as is convention in OR/MS.

1. Alex DiChristofano, Michael L. Hamilton, Qiqi Hao, Sera Linardi. *Platform Design with Prosocial Participants: Lessons from 412Connect*. Major Revision at **Operations Research**. June 2024
 - Accepted to the 1st ACM Conf. on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO**) as *Project 412Connect: Bridging Students and Communities*, 2021. Oral Presentation.
 - New Horizons Award for Best Paper Bridging Research and Practice at ACM EAAMO'21.
2. Max Biggs, Titing Cui, Michael L. Hamilton, Enfeng Xing. *Can Price Discrimination be Progressive?* Major Revision at **Operations Research**. Dec. 2025
 - Third Place, INFORMS Junior Faculty Interest Group (JFIG) Paper Competition, 2025.
3. Titing Cui, Michael L. Hamilton. *Design and Pricing of Online Dating Subscriptions*. Major Revision at **Production and Operations Management**. Nov. 2025
 - Finalist, 2024 POMS College of Service Operations Management (CSOM) Best Student Paper.
4. Michael L. Hamilton, Raghav Singal. *Churning While Experimenting: On the Long-Term Optimality of Short-Term Churn Minimization*. Reject and Resubmit at **MSOM**. May 2024
 - Accepted to the 20th Conf. on Web and Internet Economics (**WINE**), 2024.
 - Finalist, 2020 RMP Data-Driven Research Challenge.
5. Titing Cui, Michael L. Hamilton. *Fresh Rating Systems*. Reject and Resubmit at **MSOM**. June 2024
 - Accepted to Workshop on Two-sided Marketplace Optimization: Search, Discovery, Matching, Pricing & Growth in conjunction with KDD Conference (**TMSO-KDD**), 2025.
 - Finalist, 2025 POMS College of Service Operations Management (CSOM) Best Student Paper.
6. Michael L. Hamilton, Jourdain Lamperski, Kasra Tari. *Unit-Demand Pricing for Min-Buying Customers*. Submitted. Mar. 2025
7. Titing Cui, Esther Gal-Or, Mike Gordon, Michael L. Hamilton, Jennifer Shang. *The Effects of Competition on Corporate Sustainability*.
 - Accepted to the 3rd ACM Conf. on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO**), 2023.

PRESENTATIONS

Notes: (*) symbol indicates the talk was given by a coauthor, (C) indicates the talk was given online.

1. *Pricing Roses in Online Dating*
 - POMS Annual Conference (2025*), INFORMS Annual Conference (2025*).
2. *Can Price Discrimination be Progressive?*
 - CSAMSE Conference (2025*), RMP Section Conference (2025*), MSOM Annual Conference (2025*), Dartmouth Seminar (2025), INFORMS Annual Conference (2024*, 2025*).
3. *Managing Trade-offs Between Revenue, Access and Market Balance on Online Dating Platforms*
 - POMS Annual Conference (2024*, 2025), INFORMS Annual Conference (2024*).

4. *Unit-Demand Pricing for Min-Buying Customers*
 - INFORMS Optimization Society Conference (2024), INFORMS Annual Conference (2024).
5. *Fresh Rating Systems: Structure, Incentives, and Fees*
 - POMS Hong Kong Conference (2025*), POMS Annual Conference (2025*), Philly Operations Day (2024), MSOM Annual Conference (2024), RMP Section Conference (2024), INFORMS Annual Meeting (2023, 2024*).
6. *Pricing Online Dating Subscriptions*
 - NYCU Seminar (2025), POMS Annual Conference (2023*, 2024*), CSAMSE Conference (2023*), INFORMS Annual Meeting (2022*, 2023*), University of Toronto, Rotman Young Scholar Seminar (2022), RMP Section Conference (2022 C*), MSOM Annual Conference (2022), CORS Annual Conference (2022).
7. *Optimal Feature-Based Market Segmentation and Pricing*
 - Dartmouth Seminar (2025), WINE Conference (2022*), INFORMS Annual Conference (2022, 2021), RMP Section Conference (2021 C), CORS Annual Conference (2021 C).
8. *The Effects of Competition on Corporate Sustainability*
 - POMS Annual Conference (2023*, 2024*, 2025*), ACM EAAMO Conference (2023*), MSOM Conference (2023*), INFORMS Annual Conference (2022*, 2023*).
9. *Churning while Experimenting: Maximizing User Engagement in a Recommendation System*
 - WINE Conference (2024), MSOM Conference (2024*), University of Tusla Seminar (2023), Pitt IE Seminar (2023), RMP Section Conference (2021 C).
10. *Platform Design with Prosocial Participants: Lessons from 412Connect*
 - UT-Dallas Seminar (2025), NYCU Seminar (2025), Advances with Field Experiments Conference (2025*), Workshop on AI & Analytics for Social Good (2025*), POMS Annual Conference (2025), University of Tusla Seminar (2023), YinzOR Keynote (2023), INFORMS Annual Conference (2022*, 2023*), ACM EAAMO Conference (2021 C*), Sara Fine Institute (SFI), Year in Data Seminar (2021 C*).
11. *Loot Box Pricing and Design*
 - RMP Section Conference (2021 C*), MSOM Conference (2021*), CSAMSE Conference (2021 C*), CORS Annual Conference (2021 C*), ACM EC Conference (2020 C*), POMS Annual Conference (2020 C), INFORMS Annual Conference (2019*), Federal Trade Commission (FTC) Workshop on Consumer Issues, (2019*).
12. *The Value of Personalized Pricing*
 - WINE Conference (2019), MSOM Conference (2018), RMP Section Conference (2018*), POMS Annual Conference (2018), INFORMS Annual Meeting (2017, 2018, 2019).
13. *The Power of Opaque Products in Pricing*
 - UCLA, Anderson School of Management (2019), University of Pittsburgh, Katz Graduate School of Business (2019), WINE Conference (2017), MSOM Conference (2017), POMS Annual Conference (2017), INFORMS Annual Meeting (2016, 2018), RMP Section Conference (2016).

TEACHING

Instructor and Course Lead at University of Pittsburgh

Data Analysis for Business (BQOM 1080)

Fall 2019 - Fall 2024

Pricing and Market Design Doctoral Seminar (BQOM 3025)

Spring 2024

Teaching Assistant at Columbia University

Operations Consulting (IEOR 4111), Learning and Optimization (IEOR 8100), Linear Programming (IEOR 4004), Stochastic Models (IEOR 4106)

Grader at Rutgers University

Introduction to Computer Science (CS 111), Calculus I & II (Math 151/152)

MENTORSHIP

PhD Student Co-Author

Alex Lim (<i>Primary advisor</i>), University of Pittsburgh	Fall 2024 -
Kasra Tari (<i>Co-advisor</i>), University of Pittsburgh	Fall 2022 -
Qiqi Hao (<i>Primary advisor</i>), University of Pittsburgh	Fall 2022 -
Enfeng Xing (<i>Host</i>), Tianjin University	Dec. 2023 - Dec. 2024
Titing Cui (<i>Primary advisor</i>), University of Pittsburgh	Fall 2021 - Summer 2024

First Position: Tenure Track Assistant Professor at the University of Tulsa

Alex DiChristofano (<i>Co-Author</i>), WUSTL DCDS	Fall 2020 - Summer 2025
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PhD Thesis Committee Member

Jing Luo - University of Pittsburgh (2022), Titing Cui - University of Pittsburgh (Chair, 2024).

Undergraduate and Masters Advising

Mehba Teshome (2021 → Pitt MS), Stephen Imhoff (2021 → PNC, UIUC MS), Jingyao Wu (2022 → JHU MS), Lidong Yang (2022 → CMU MS) , Tianren Wang (2022 → Columbia MS), Jay Hu (2022 → UToronto), Yusang Shen (2023 → UMich MS), Aoqin Yan (2023 → Pitt MS), Yichen Ding (2023 → Columbia MS), Tracy Wang (2023 → Columbia MS), Anna Jiang (2023 → Fed. RA), Xindi Shao (2024 MCSI), Ruihan Ji (2025 → UMN ISyE PhD), Jiaqi Wang (2025 MCSI).

AWARDS AND SCHOLARSHIPS

Awards

Third Place, 2025 INFORMS Junior Faculty Interest Group (JFIG) Paper Competition	2025
Finalist, 2025 POMS CSOM Best Student Paper (to <i>Titing Cui</i>)	2025
Finalist, 2024 POMS CSOM Best Student Paper (to <i>Titing Cui</i>)	2024
Third Place, INFORMS Service Science Best Cluster Paper Competition	2022
EAAMO New Horizons Award for Bridging Research and Practice	2021
Third Place, 2021 CSAMSE Conference Best Paper Award	2021
Finalist, 2020 RMP Data-Driven Research Challenge	2021
Katz Excellence in Research Award	2021
Engaged Scholarship Development Initiative Summer Design Fellow	2021
Winner, IBM Best Student Paper Award in Service Science (to <i>Xiao Lei</i>)	2019
Finalist, INFORMS Service Science Best Cluster Paper Competition	2018
JMM Outstanding Poster Presentation Winner	2014

Scholarships

Weill Scholarship	2013 - 2014
Rutgers Mathematics Honors Track	2013 - 2014
SAS Excellence Award, The Harry J. Riskin Scholarship	2012 - 2014
Scarlet Scholarship	2010 - 2014
Dean's Scholarship	2010 - 2014
Rutgers School of Arts and Sciences Honors Program	2010 - 2014

FUNDING

LRDC Internal Award, <i>Leveraging a Role-Based Collaboration Technology to Scaffold Multi-Stakeholder Experiential Learning</i> (Amount: \$75,000)	2024-2025
(co-PI with Jamie Booth, Sera Linardi, Rosta Farzan, Kay Shimizu, and Erin Walker).	
Pitt Seed Grant, <i>Building DS4SJ Ecosystems: Sustaining Impact</i> , (Amount: \$75,000).	2022-2023
(co-PI with Sera Linardi, Bob Gradeck, and Nick Farnan).	

Engaged Scholarship Development Initiative (ESDI) Grant. (Amount: \$3000)

2022

PROFESSIONAL SERVICE

Reviewer

Journals: Management Science, Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, IIE Transactions, Naval Research Logistics, Computational Management Science, INFORMS Journal of Computing, Applied Economics Letters, Annals of Operations Research.

Conferences: MSOM Main Conference Abstracts (2025), ACM Economics and Computation (EC) (2020, 2021, 2024, 2025), ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO) (2021 - 2025), WINE (2021, 2023, 2024, 2025).

Prizes: INFORMS PSOR Best Paper Award Competition (2023).

Recognition: Management Science Meritorious Service Award (2024).

Session Chair

POMS Annual Conference 2023, 2024, 2025, 2026

INFORMS Annual Conference 2021, 2023(x2), 2024

50th NBER Decentralization Conference: Mechanism Design for Vulnerable Populations 2020

Program Committee

ACM Conference on Economics and Computation (EC) 2024 - 2025

Conference on Web and Internet Economics (WINE) 2023 - 2025

ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO) 2021 - 2025

International Conference on Artificial Intelligence × Business (AlxB) 2025

Other Conference Service

General Chair for ACM EAAMO 2025

Co-Organizer for Philly Operations Day 2024, 2025

University Service

MCSI Undergraduate Summer Research Advisor 2024, 2025

Paths to Distinction Task Force Committee Member 2022 - 2025

Business Analytics Task Force Committee Member 2022 - 2025

Faculty Search Committee Member 2022, 2023

PhD Admissions Committee Member 2021 -

Faculty Judge for YinzOR Poster and Flash Talk Competitions 2022, 2023

Instructor/Coach for Katz Super Analytics Challenge 2021, 2022

Race to the Case Logistics Faculty Judge 2019, 2021, 2022

Faculty Mentor for ACM Economics and Computation (EC) 2020

Academic Job Market Panel Organizer 2018

IEOR-DRO Seminar Student Organizer 2017

OTHER EXPERIENCE

Media Math New York, NY 2017

Research Science Intern

Amazon Research Seattle, WA 2016

Research Science Intern

North Carolina State University REU Raleigh, NC 2012

Undergraduate Researcher

MISC.

Programming Languages: Python, R, Julia, L^AT_EX

Volunteering: School 2 Career (S2C) Tutor, Grief to Action (G2A) Member

July 1992

Feb. 2023

Citizenship: USA

Other: Kidney donor

References are available upon request.