

Michael L. Hamilton

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Updated May, 2022.

Employment **University of Pittsburgh**, Pittsburgh, PA Summer 2019 -
Katz Graduate School of Business
Area: *Business Analytics and Operations*
Title: *Assistant Professor*

Education **Columbia University**, New York, NY Fall 2014 - Spring 2019
Ph.D. in Operations Research
• Thesis: *Pricing Tools and Analysis for Emerging e-Commerce Technologies*
Rutgers University, New Brunswick, NJ Fall 2010 - Spring 2014
B.S. in Mathematics
• Minors in Computer Science and Operations Research

Working Papers *Note: Author ordering on all papers is alphabetical, as is convention in OR/MS.*

1. Cui, T., Hamilton, M., [Pricing Strategies for Online Dating Platforms](#). In preparation for journal submission.
2. Hamilton, M., Singal, R., [Churning while Learning: Maximizing User Engagement in a Recommendation System](#). In preparation for journal submission.
 - Finalist, 2020 RMP Data-Driven Research Challenge.
3. DiChristofano, A., Hamilton, M., Linardi, S., McCloud, M. [Project 412Connect: Bridging Students to Communities](#). In preparation for journal submission.
 - Accepted to the 1st ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO**), 2021. **Oral Presentation**.
 - New Horizons Award for Bridging Research and Practice at ACM EAAMO'21.
 - Engaged Scholarship Development Initiative Grant Winner (Amount: \$3000).
4. Cui, T., Hamilton, M., [Feature-Based Market Segmentation and Pricing](#). In preparation for journal submission.
5. Gal-Or, E., Gordon, M., Hamilton, M., Shang, J. [Sustainable Investment: Effects of Green Manufacturing and Social Responsibility in Competition](#). In preparation for journal submission.
6. Cui, T., Hamilton, M., Jia, S., [Fee Structures for Online Platforms](#). In progress.

Published Papers

1. Chen, N., Elmachoub, A., Hamilton, M., Lei, X., [Loot Box Pricing and Design](#). **Management Science** Dec. 2020
 - Accepted to the 21st ACM Conference on Economics and Computation (**EC**), 2020.
 - Finalist, 2021 CSAMSE Conference Best Paper Award.
 - Winner, 2019 IBM Best Student Paper Award in Service Science.

	<ul style="list-style-type: none"> Invited to present at the Federal Trade Commission (FTC) Workshop on Consumer Issues Related to Loot Boxes, 2019. 	
	2. Elmachoub, A., Gupta, V., Hamilton, M., The Value of Personalized Pricing. Management Science April 2021 <ul style="list-style-type: none"> Accepted to the 15th Conference on Web and Internet Economics (WINE), 2019. Finalist, INFORMS Service Science Best Cluster Paper Competition, 2018. 	
	3. Elmachoub, A., Hamilton, M., The Power of Opaque Products in Pricing. Management Science Jan. 2021 <ul style="list-style-type: none"> Accepted to the 13th Conference on Web and Internet Economics (WINE), 2017 	
Previous Papers	4. Hamilton, M., Hoang, P., Murray, J., Stafford, C., & Tran, H. A Dynamic Feature Selection Based LDA Approach to Baseball Pitch Prediction. Trends and applications in knowledge discovery and data mining 2015	
	5. Hamilton, M., Hoang, L. Layne, J. Murray, D. Padget, C. Stafford, & H. Tran. Applying Machine Learning Techniques to Baseball Pitch Prediction. Int. Conf. on Pattern Recognition Applications and Methods 2014	
Prior Experience	MediaMath , New York, NY <i>Research Science Intern</i> Summer 2017	
	Amazon Research , Seattle WA. <i>Research Science Intern</i> Summer 2016	
	North Carolina State University , Raleigh, NC <i>Undergraduate Researcher</i> Summer 2013	
Presentations	Notes: (*) symbol implies talk was given by a coauthor. The (C) implies the talk was given online.	
	<i>“Pricing Strategies for Online Dating Platforms”</i>	
	<ul style="list-style-type: none"> University of Toronto, Rotman Young Scholar Seminar July 2022 INFORMS Annual Conference 2022, Indianapolis, In. (*) Oct. 2022 MSOM Annual Conference 2022, Munich. June 2022 CORS Annual Conference 2022, Vancouver. (*) June 2022 	
	<i>“Project 412Connect: Bridging Students to Communities”</i>	
	<ul style="list-style-type: none"> ACM EAAMO Conference 2021, Remote Conference. (C*) Oct 2021 Sara Fine Institute (SFI) 2021, Year in Data Seminar. (C*) Sept. 2021 	
	<i>“Churning while Learning: Maximizing User Engagement in a Recommendation System”</i>	
	<ul style="list-style-type: none"> RMP Section Conference 2021, Remote Conference. (C) July 2021 	
	<i>“Feature-Based Market Segmentation and Pricing”</i>	

- INFORMS Annual Conference 2022, Indianapolis, In. Oct. 2022
- INFORMS Annual Conference 2021, Anaheim CA. Oct. 2021
- RMP Section Conference 2021, Remote Conference. (C) July 2021
- CORS Annual Conference 2021, Remote Conference. (C) June 2021

“Loot Box Pricing and Design”

- RMP Section Conference 2021, Remote Conference. (C*) July 2021
- CSAMSE Conference 2021, Remote Conference. (C*) June 2021
- CORS Annual Conference 2021, Remote Conference. (C*) June 2021
- ACM EC Conference 2020, Remote Conference. (C*) July 2020
- POMS Annual Conference 2020, Minneapolis MN. (C) May 2020
- INFORMS Annual Conference 2019, Seattle WA. (*) Oct. 2019
- Federal Trade Commission (FTC) Workshop on Consumer Issues, Washington D.C. (*) Sept. 2019

“The Value of Personalized Pricing”

- WINE Conference 2019, New York NY. Dec. 2019
- MSOM Conference 2018, Dallas TX. July 2018
- RMP Section Conference 2018, Toronto CN. (*) June 2018
- POMS Annual Conference 2018, Houston TX. May 2018
- INFORMS Annual Meeting 2019, Seattle WA. Oct. 2019
- INFORMS Annual Meeting 2018, Phoenix AZ. Oct. 2018
- INFORMS Annual Meeting 2017, Houston TX. Oct. 2017

“The Power of Opaque Products in Pricing”

- UCLA, Anderson School of Management, Los Angeles, CA. Feb. 2019
- University of Pittsburgh, Katz Graduate School of Business, PA. Jan. 2019
- WINE Conference 2017, IIS, Bangalore, India. Dec. 2017
- MSOM Conference 2017, UNC, Chapel Hill NC. June 2017
- POMS Annual Conference 2017, Seattle WA. May 2017
- INFORMS Annual Meeting 2018, Phoenix AZ. Oct. 2018
- INFORMS Annual Meeting 2016, Nashville TN. Nov. 2016
- RMP Section Conference 2016, NYU, New York NY. June 2016

Teaching Experience	University of Pittsburgh , Pittsburgh, PA	
	<i>Instructor and Course Coordinator</i>	
	• BUSQOM 1080 Data Analysis for Business	Fall 2019, 2020, 2021
	Columbia University , New York, NY	
	<i>Teaching Assistant</i>	
	• IEOR 4111 Operations Consulting.	Fall 2017 - Spring 2018
	• IEOR 8100 Learning and Optimization.	Spring 2016
	• IEOR 4004 Optimization Models & Methods.	Fall 2015, Fall 2016
	• IEOR 4106 Stochastic Models.	Spring 2015
	Rutgers University , New Brunswick, NJ	
	<i>Recitation Mentor/Grader</i>	
	• CS 111, Introduction to Computer Science.	Spring 2013 - Spring 2014
	• MATH 151/152, Calculus I & II	Fall 2012 - Fall 2014
	PhD Co-Author	
	• Titing Cui , University of Pittsburgh (Katz).	Fall 2021 - Present
Mentorship	• Alex DiChristofano , WUSTL (DCDS)	Fall 2020 - Present
	PhD Thesis Committee Member	
	• Jing Luo (2022)	
	Undergraduate Advising	
	• Mehba Teshome (2021 → Pitt M.S.), Jingyao Wu (2022 → JHU M.S.), Tianyu Tan (2022), Lidong Yang (2022 → CMU M.S.)	
Honors & Awards	Katz 2021 Excellence in Research Award	
	2021	
	<i>Winner</i> , EAAMO New Horizons Award for Bridging Research and Practice	
	2021	
	<i>Finalist</i> , 2021 CSAMSE Conference Best Paper Award	
	2021	
	<i>Finalist</i> , 2020 RMP Data-Driven Research Challenge	
	2021	
	Engaged Scholarship Development Initiative Summer Design Fellow	
	2021	
	<i>Winner</i> , IBM Best Student Paper Award in Service Science (to <i>Xiao Lei</i>)	
	2019	
	<i>Finalist</i> , Service Science Best Cluster Paper Competition	
	2018	
	JMM Outstanding Poster Presentation Winner	
	2014	
	High Honors in Mathematics (Top 4), Rutgers University	
	2014	
	Weill Scholarship	2013 - 2014
	SAS Excellence Award, The Harry J. Riskin Scholarship	2012 - 2014
	Scarlet Scholarship	2010 - 2014
	Dean's Scholarship	2010 - 2014
	Rutgers Mathematics Honors Track	2013 - 2014
	Rutgers School of Arts and Sciences Honors Program	2010 - 2014
	Reviewer	
	• Journals: <i>Management Science</i> , <i>Operations Research</i> , <i>Manufacturing & Service Operations Management</i> , <i>Production and Operations Management</i> , <i>IIE Transactions</i> , <i>Naval Research Logistics</i> , <i>Computational Management Science</i> .	
Professional Activities & Service		

- Conferences: *ACM Economics and Computation (EC)* (2020, 2021), *ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)* (2021, 2022)

Session Chair

- INFORMS Annual Meeting, Anaheim, 2021

Program Committee

- ACM EAAMO (2021, 2022)

Academic Service

- Business Analytics Task Force Committee Member 2022 (Pitt)
- Faculty Search Committee Member 2022 (Pitt)
- PhD Admissions Committee Member 2022 (Pitt)
- Instructor/Coach for Katz Super Analytics Challenge 2021, 2022 (Pitt)
- Co-organizer, Discussant Lead for the 50th *NBER Decentralization Conference: Mechanism Design for Vulnerable Populations* 2020
- Faculty Mentor for *ACM Economics and Computation (EC)* 2020
- Academic Job Market Panel Organizer 2018 (Columbia)
- IEOR-DRO Seminar Student Organizer 2017 (Columbia)

Misc.

Languages: *Python, R, Julia, Matlab, Java, L^AT_EX*

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

Citizenship: *USA*

References are available upon request.