

## Michael L. Hamilton

<b>Contact Information</b>	330 Mervis Hall 3950 Roberto Clemente Drive Pittsburgh, PA 15260	✉ mhamilton@katz.pitt.edu 🌐 <a href="https://mhamilton-pitt.github.io/">mhamilton-pitt.github.io/</a> Updated July, 2022.
<b>Employment</b>	<b>University of Pittsburgh</b> , Pittsburgh, PA <i>Katz Graduate School of Business</i> Area: <i>Business Analytics and Operations</i> Title: <i>Assistant Professor</i>	Summer 2019 -
<b>Education</b>	<b>Columbia University</b> , New York, NY Ph.D. in Operations Research Thesis: <i>Pricing Tools and Analysis for Emerging e-Commerce Technologies</i>	Fall 2014 - Spring 2019
	<b>Rutgers University</b> , New Brunswick, NJ B.S. in Mathematics	Fall 2010 - Spring 2014
<b>Working Papers</b>	<i>Note: Author ordering on all papers is alphabetical, as is convention in OR/MS.</i> <ol style="list-style-type: none"><li>1. Cui, T., Hamilton, M., <a href="#">Optimal Feature-Based Market Segmentation and Pricing</a>. In preparation for journal submission.</li><li>2. Cui, T., Hamilton, M., <a href="#">Pricing Strategies for Online Dating Platforms</a>. In preparation for journal submission.</li><li>3. Hamilton, M., Singal, R., <a href="#">Churning while Learning: Maximizing User Engagement in a Recommendation System</a>. In preparation for journal submission.<ul style="list-style-type: none"><li>• Finalist, 2020 RMP Data-Driven Research Challenge.</li></ul></li><li>4. DiChristofano, A., Hamilton, M., Linardi, S., McCloud, M. <a href="#">Project 412Connect: Bridging Students to Communities</a>. In preparation for journal submission.<ul style="list-style-type: none"><li>• Accepted to the 1<sup>st</sup> ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (<b>EAAMO</b>), 2021. <b>Oral Presentation</b>.</li><li>• New Horizons Award for Bridging Research and Practice at ACM EAAMO'21.</li><li>• Engaged Scholarship Development Initiative Grant Winner (Amount: \$3000).</li></ul></li><li>5. Gal-Or, E., Gordon, M., Hamilton, M., Shang, J. <a href="#">Sustainable Investment: Effects of Green Manufacturing and Social Responsibility in Competition</a>. In progress.</li><li>6. Cui, T., Hamilton, M., Jia, S., <a href="#">Fee Structures for Online Platforms</a>. In progress.</li></ol>	
<b>Published Papers</b>	<ol style="list-style-type: none"><li>1. Chen, N., Elmachtoub, A., Hamilton, M., Lei, X., <a href="#">Loot Box Pricing and Design</a>. <b>Management Science</b> Dec. 2020<ul style="list-style-type: none"><li>• Accepted to the 21<sup>st</sup> ACM Conference on Economics and Computation (<b>EC</b>), 2020.</li><li>• Finalist, 2021 CSAMSE Conference Best Paper Award.</li><li>• Winner, 2019 IBM Best Student Paper Award in Service Science.</li><li>• Invited to present at the Federal Trade Commission (FTC) Workshop on Consumer Issues Related to Loot Boxes, 2019.</li></ul></li></ol>	

	2. Elmachetoub, A., Gupta, V., Hamilton, M., <a href="#">The Value of Personalized Pricing</a> . <b>Management Science</b> April 2021
	<ul style="list-style-type: none"> <li>• Accepted to the 15<sup>th</sup> Conference on Web and Internet Economics (<b>WINE</b>), 2019.</li> <li>• Finalist, INFORMS Service Science Best Cluster Paper Competition, 2018.</li> </ul>
	3. Elmachetoub, A., Hamilton, M., <a href="#">The Power of Opaque Products in Pricing</a> . <b>Management Science</b> Jan. 2021
	<ul style="list-style-type: none"> <li>• Accepted to the 13<sup>th</sup> Conference on Web and Internet Economics (<b>WINE</b>), 2017</li> </ul>
<b>Previous Papers</b>	4. Hamilton, M., Hoang, P., Murray, J., Stafford, C., & Tran, H. <a href="#">A Dynamic Feature Selection Based LDA Approach to Baseball Pitch Prediction</a> . Trends and applications in knowledge discovery and data mining 2015
	5. Hamilton, M., Hoang, L. Layne, J. Murray, D. Padget, C. Stafford, & H. Tran. <a href="#">Applying Machine Learning Techniques to Baseball Pitch Prediction</a> . Int. Conf. on Pattern Recognition Applications and Methods 2014
<b>Prior Experience</b>	<b>MediaMath</b> , New York, NY Summer 2017 <i>Research Science Intern</i>
	<b>Amazon Research</b> , Seattle WA. Summer 2016 <i>Research Science Intern</i>
	<b>North Carolina State University</b> , Raleigh, NC Summer 2013 <i>Undergraduate Researcher</i>
<b>Presentations</b>	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"> <li>• INFORMS Annual Conference 2022, Indianapolis, In. (*) Oct. 2022</li> <li>• University of Toronto, Rotman Young Scholar Seminar July 2022</li> <li>• RMP Section Conference 2022, Remote Conference. (C*) July 2021</li> <li>• MSOM Annual Conference 2022, Munich. June 2022</li> <li>• CORS Annual Conference 2022, Vancouver. (*) June 2022</li> </ul>
	<i>“Project 412Connect: Bridging Students to Communities”</i>
	<ul style="list-style-type: none"> <li>• INFORMS Annual Conference 2022, Indianapolis, In. (*) Oct. 2022</li> <li>• ACM EAAMO Conference 2021, Remote Conference. (C*) Oct 2021</li> <li>• Sara Fine Institute (SFI) 2021, Year in Data Seminar. (C*) Sept. 2021</li> </ul>
	<i>“Churning while Learning: Maximizing User Engagement in a Recommendation System”</i>
	<ul style="list-style-type: none"> <li>• RMP Section Conference 2021, Remote Conference. (C) July 2021</li> </ul>
	<i>“Optimal 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
- MSOM Conference 2021, Indianapolis, In. (\*) June 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	<b>University of Pittsburgh</b> , Pittsburgh, PA	
	<i>Instructor and Course Coordinator</i>	
	• BUSQOM 1080 Data Analysis for Business	Fall 2019-2022
	<b>Columbia University</b> , New York, NY	
	<i>Teaching Assistant</i>	
Mentorship	• 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
	<b>Rutgers University</b> , 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
	<b>PhD Student Co-Author</b>	
	• <a href="#">Titing Cui</a> , University of Pittsburgh (Katz).	Fall 2021 - Present
Honors & Awards	• <a href="#">Alex DiChristofano</a> , WUSTL (DCDS)	Fall 2020 - Present
	<b>PhD Thesis Committee Member</b>	
	• Jing Luo (2022)	
	<b>Undergraduate Advising</b>	
	• Mehba Teshome (2021 → Pitt M.S.), Jingyao Wu (2022 → JHU M.S.), Tianyu Tan (2022), Lidong Yang (2022 → CMU M.S.)	
Funding	<b>Grants</b>	
	• University of Pittsburgh - <a href="#">Pitt Seed Grant</a> , <i>Building DS4SJ Ecosystems: Sustaining Impact</i> , (co-PI with Sera Linardi, Bob Gradeck, and Nick Farnan), 2022-2023 (\$75,000).	
	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

**Professional  
Activities &  
Service**

**Reviewer**

- Journals: *Management Science*, *Operations Research*, *Manufacturing & Service Operations Management*, *Production and Operations Management*, *IIE Transactions*, *Naval Research Logistics*, *Computational Management Science*.
- 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 50<sup>th</sup> *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<sup>A</sup>T<sub>E</sub>X*

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

Citizenship: *USA*

References are available upon request.