

## 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 Oct., 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>Cui, T., Hamilton, M., <a href="#">Optimal Feature-Based Market Segmentation and Pricing</a>. <b>Submitted</b>.<ul style="list-style-type: none"><li>Accepted to the 18<sup>th</sup> Conf. on Web and Internet Economics (<b>WINE</b>), 2022.</li><li>Finalist, INFORMS Service Science Best Cluster Paper Competition, 2022.</li></ul></li><li>Cui, T., Hamilton, M., <a href="#">Pricing Strategies for Online Dating Platforms</a>. <b>Submitted</b>.</li><li>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 Conf. 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>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>Cui, T., 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>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>Chen, N., Elmachoub, 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 Conf. 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></ul></li></ol>	

	<ul style="list-style-type: none"> <li>Invited to present at the Federal Trade Commission (FTC) Workshop on Consumer Issues Related to Loot Boxes, 2019.</li> </ul>	
	2. Elmachtoub, 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> Conf. on Web and Internet Economics (<b>WINE</b>), 2019.</li> <li>Finalist, INFORMS Service Science Best Cluster Paper Competition, 2018.</li> </ul>	
	3. Elmachtoub, 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> Conf. 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.	
	“Pricing Strategies for Online Dating Platforms”	
	<ul style="list-style-type: none"> <li>INFORMS Annual Conference 2022, Indianapolis, In. (*)</li> </ul>	Oct. 2022
	<ul style="list-style-type: none"> <li>University of Toronto, Rotman Young Scholar Seminar</li> </ul>	July 2022
	<ul style="list-style-type: none"> <li>RMP Section Conference 2022, Remote Conference. (C*)</li> </ul>	July 2022
	<ul style="list-style-type: none"> <li>MSOM Annual Conference 2022, Munich.</li> </ul>	June 2022
	<ul style="list-style-type: none"> <li>CORS Annual Conference 2022, Vancouver. (*)</li> </ul>	June 2022
	“Project 412Connect: Bridging Students to Communities”	
	<ul style="list-style-type: none"> <li>INFORMS Annual Conference 2022, Indianapolis, In. (*)</li> </ul>	Oct. 2022
	<ul style="list-style-type: none"> <li>ACM EAAMO Conference 2021, Remote Conference. (C*)</li> </ul>	Oct 2021
	<ul style="list-style-type: none"> <li>Sara Fine Institute (SFI) 2021, Year in Data Seminar. (C*)</li> </ul>	Sept. 2021
	“Churning while Learning: Maximizing User Engagement in a Recommendation System”	
	<ul style="list-style-type: none"> <li>RMP Section Conference 2021, Remote Conference. (C)</li> </ul>	July 2021
	“Optimal Feature-Based Market Segmentation and Pricing”	

- WINE Conference 2022, Troy NY. (\*) Dec. 2022
- 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

<b>Teaching</b>	<b>University of Pittsburgh</b> , Pittsburgh, PA	
	<i>Instructor and Course Coordinator</i>	
	• BUSQOM 1080 Data Analysis for Business	Fall 2019 - Fall 2022
	<b>Columbia University</b> , 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
	<b>Rutgers University</b> , New Brunswick, NJ	
<b>Mentorship</b>	<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
	<i>Note: The (A) designates students for which I am their primary advisor.</i>	
	<b>PhD Student Co-Author</b>	
	• Qiqi Hao (A), University of Pittsburgh (Katz).	Fall 2022 - Present
	• Titing Cui (A), University of Pittsburgh (Katz).	Fall 2021 - Present
	• Alex DiChristofano, WUSTL (DCDS)	Fall 2020 - Present
	<b>PhD Thesis Committee Member</b>	
	• Jing Luo (2022)	
<b>Honors &amp; Awards</b>	<b>Undergraduate Advising</b>	
	• Mehba Teshome (2021 → Pitt M.S.), Stephen Imhoff (2021 → PNC), Jingyao Wu (2022 → JHU M.S.), Tianyu Tan (2022), Lidong Yang (2022 → CMU M.S.)	
	<i>Finalist</i> , INFORMS Service Science Best Cluster Paper Competition	2022
	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> , INFORMS 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

<b>Funding</b>	<b>Grants</b> <ul style="list-style-type: none"> <li>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).</li> </ul>
<b>Professional Activities &amp; Service</b>	<b>Reviewer</b> <ul style="list-style-type: none"> <li>Journals: <i>Management Science</i>, <i>Operations Research</i>, <i>Manufacturing &amp; Service Operations Management</i>, <i>Production and Operations Management</i>, <i>IIE Transactions</i>, <i>Naval Research Logistics</i>, <i>Computational Management Science</i>.</li> <li>Conferences: <i>ACM Economics and Computation (EC)</i> (2020, 2021), <i>ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)</i> (2021, 2022)</li> </ul> <b>Session Chair</b> <ul style="list-style-type: none"> <li>INFORMS Annual Meeting, Anaheim 2021</li> </ul> <b>Program Committee</b> <ul style="list-style-type: none"> <li>ACM EAAMO 2021, 2022</li> </ul> <b>Academic Service</b> <ul style="list-style-type: none"> <li>Faculty Judge for <i>YinzOR</i> Poster and Flash Talk Competitions 2022</li> <li>Business Analytics Task Force Committee Member 2022 (Pitt)</li> <li>Faculty Search Committee Member 2022 (Pitt)</li> <li>PhD Admissions Committee Member 2022 (Pitt)</li> <li>Instructor/Coach for Katz Super Analytics Challenge 2021, 2022 (Pitt)</li> <li>Co-organizer, Discussant Lead for the 50<sup>th</sup> <i>NBER Decentralization Conference: Mechanism Design for Vulnerable Populations</i> 2020</li> <li>Faculty Mentor for <i>ACM Economics and Computation (EC)</i> 2020</li> <li>Academic Job Market Panel Organizer 2018 (Columbia)</li> <li>IEOR-DRO Seminar Student Organizer 2017 (Columbia)</li> </ul>
<b>Misc.</b>	<p>Languages: <i>Python</i>, <i>R</i>, <i>Julia</i>, <i>Matlab</i>, <i>Java</i>, <i>L<sup>A</sup>T<sub>E</sub>X</i></p> <p>Volunteering: <i>School 2 Career (S2C)</i> Tutor, <i>Grief to Action (G2A)</i> Member</p> <p>Citizenship: <i>USA</i></p> <p>References are available upon request.</p>