

## Michael L. Hamilton

<b>Contact Information</b>	119A 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 May 2021
<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 • Minors in Computer Science and Operations Research	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>Hamilton, M., Singal, R., <a href="#">Churning while Learning: Maximizing User Engagement in a Recommendation System</a>.<ul style="list-style-type: none"><li>Submitted.</li></ul></li><li>DiChristofano, A., Hamilton, M., Linardi, S., <a href="#">Project 412Connect</a>.<ul style="list-style-type: none"><li>Engaged Scholarship Development Initiative Grant Winner (Amount: 3000\$).</li><li>To be submitted.</li></ul></li><li>Hamilton, M., <a href="#">Feature-Based Market Segmentation and Pricing</a>.<ul style="list-style-type: none"><li>To be submitted.</li></ul></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 Conference on Economics and Computation (<b>EC</b>), 2020</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><li>Elmachoub, 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></li><li>Elmachoub, 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></li></ol>	

**Previous Papers**

4. Hoang, P., Hamilton, M., 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), 125-137.
5. Hamilton, M., Hoang, L. Layne, J. Murray, D. Padget, C. Stafford, & H. Tran. [Applying Machine Learning Techniques to Baseball Pitch Prediction](#). Proc. of the 3rd Int. Conf. on Pattern Recognition Applications and Methods (2014).

**Prior Experience**

- MediaMath**, New York, NY Summer 2017  
*Research Science Intern*
- Amazon Research**, Seattle WA. Summer 2016  
*Research Science Intern*
- North Carolina State University**, Raleigh, NC Summer 2013  
*Undergraduate Researcher*

**Presentations**

Notes: (\*) symbol implies talk was given by a coauthor. The (C) implies the talk was either cancelled due to Covid-19 or given online.

*“Feature-Based Market Segmentation and Pricing”*

- INFORMS Annual Conference 2021, Anaheim CA. Oct. 2021
- RMP Section Conference 2021, Remote Conference. (C) July 2020
- CORS Annual Conference 2021, Remote Conference. (C) June 2021

*“Loot Box Pricing and Design”*

- 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

*“Applying Machine Learning Techniques to Baseball Pitch Prediction”*

- JMM, MAA Undergraduate Student Poster Session Jan. 2014

## Teaching Experience

**University of Pittsburgh**, Pittsburgh, PA

*Instructor*

- BUSQOM 1080 Data Analysis for Business Fall 2019, 2020, 2021

**Columbia University**, New York, NY

*Teaching Assistant*

- 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

*Recitation Mentor/Grader*

- CS 111, Introduction to Computer Science. Spring 2013 - Spring 2014
- MATH 151/152, Calculus I & II Fall 2012 - Fall 2014

## Honors & Awards

Engaged Scholarship Development Initiative Summer Design Fellow 2021  
*Winner*, IBM Best Student Paper Award in Service Science (to *Xiao Lei*) 2019  
*Finalist*, 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

### Ad-Hoc Reviewer

- Journals: *IIE Transactions*, *Naval Research Logistics*, *Management Science*, *Production and Operations Management*, *Computational Management Science*.
- Conferences: *ACM Economics and Computation (EC)* (2020, 2021).

### Session Chair

- INFORMS Annual Meeting, Anaheim, 2021

### University Service

- Coach for 1<sup>st</sup> Katz Super Analytics Challenge (SAC), 2021 (Pitt)

- CAASI Spring 2021 Reading Group Organizer (Pitt)
- Co-organizer, Discussant Lead for the 50<sup>th</sup> *NBER Decentralization Conference: Mechanism Design for Vulnerable Populations*
- Faculty Mentor for *ACM Economics and Computation (EC)* (2020).
- 2018 Academic Job Market Panel Organizer (Columbia)
- 2017 IEOR-DRO Seminar Student Organizer (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 by request.