

Michael L. Hamilton

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Updated Feb, 2021
- 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. Hamilton, M., Singal, R., [Churning while Learning: Maximizing User Engagement in a Recommendation System](#).
 - To be submitted.
 2. Hamilton, M., [Feature-Based Market Segmentation and Pricing](#).
 - To be submitted.
- Accepted Papers**
3. Chen, N., Elmachtoub, 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
 - Winner, 2019 IBM Best Student Paper Award in Service Science
 - Invited to present at the Federal Trade Commission (FTC) Workshop on Consumer Issues Related to Loot Boxes, 2019.
 4. Elmachtoub, A., Gupta, V., Hamilton, M., [The Value of Personalized Pricing](#). **Management Science** (April 2021).
 - Accepted to the 15th Conference on Web and Internet Economics (**WINE**), 2019
 - Finalist, INFORMS Service Science Best Cluster Paper Competition, 2018
 5. Elmachtoub, A., Hamilton, M., [The Power of Opaque Products in Pricing](#). **Management Science** (Jan. 2021).
 - Accepted to the 13th Conference on Web and Internet Economics (**WINE**), 2017
- Previous Papers**
6. 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.

7. 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 <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 either cancelled due to Covid-19 or given online.

“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
Outstanding Presentation Winner

Teaching Experience

University of Pittsburgh, Pittsburgh, PA

Instructor

- BUSQOM 1080 Data Analysis for Business Fall 2019, 2020

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

- Winner*, IBM Best Student Paper Award in Service Science (to *Xiao Lei*) 2019
- Finalist*, Service Science Best Cluster Paper Competition 2018
- High Honors in Mathematics, 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 1st Katz Super Analytics Challenge (SAC), 2021 (Pitt)
- CAASI Spring 2021 Reading Group Organizer (Pitt)
- Co-organizer, Discussant Lead for the 50th *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*, *LaTeX*
- Volunteering: *School 2 Career (S2C) Tutor*, *Grief to Action (G2A) Member*
- Citizenship: *USA*
- References are available by request.