Michael L. Hamilton

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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. Submitted.
   - Finalist, 2020 RMP Data-Driven Research Challenge.

2. DiChristofano, A., Hamilton, M., Linardi, S., McCloud, M. Project 412Connect: Bridging Students to Communities. Submitted.
   - Engaged Scholarship Development Initiative Grant Winner (Amount: $3000).

3. Hamilton, M., Feature-Based Market Segmentation and Pricing. To be submitted.

Published Papers

1. 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.
   - Finalist, 2021 CSAMSE Conference Best Paper Award.
   - 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.

2. 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.

3. 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

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), 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.

"Churning while Learning: Maximizing User Engagement in a Recommendation System"

• RMP Section Conference 2021, Remote Conference. (C)	July 2021

"Feature-Based Market Segmentation and Pricing"

• 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

"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

Finalist, 2021 CSAMSE Conference Best Paper Award	2021
Finalist, 2020 RMP Data-Driven Research Challenge	2021
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: *IISE Transactions, Naval Research Logistics, Management Science, Production and Operations Management, Computational Management Science, Manufacturing & Service Operations Management.*
- Conferences: *ACM Economics and Computation (EC)* (2020, 2021), *ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)* (2021).

Session Chair
-INFORMS Annual Meeting, Anaheim, 2021

Program Committee
-ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO) (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.