Michael L. Hamilton

Contact Information

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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. Cui, T., Hamilton, M., Pricing Strategies for Online Dating Platforms. In preparation for journal submission.

2. Hamilton, M., Singal, R., Churning while Learning: Maximizing User Engagement in a Recommendation System. In preparation for journal submission.
   - Finalist, 2020 RMP Data-Driven Research Challenge.

3. DiChristofano, A., Hamilton, M., Linardi, S., McCloud, M. Project 412Connect: Bridging Students to Communities. In preparation for journal submission.
   - Accepted to the 1st ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO**), 2021. **Oral Presentation**.
   - New Horizons Award for Bridging Research and Practice at ACM EAAMO'21.
   - Engaged Scholarship Development Initiative Grant Winner (Amount: $3000).

4. Hamilton, M., Feature-Based Market Segmentation and Pricing. In preparation for journal submission.

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

5. Hamilton, M., Hoang, L. Layne, J. Murray, D. Padget, C. Stafford, & H. Tran. Applying Machine Learning Techniques to Baseball Pitch Prediction.
   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 given online.

"Project 412Connect: Bridging Students to Communities"
- ACM EAAMO Conference 2021, Remote Conference. (C*)   Oct 2021
- Sara Fine Institute (SFI) 2021, Year in Data Seminar. (C*)   Sept. 2021

"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

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

PhD Mentorship

Co-Author
- Titing Cui, University of Pittsburgh (Katz).   Fall 2021 - Present
- Alex DiChristofano, WUSTL (DCDS)   Fall 2020 - Present

Honors &		
Awards	Katz 2021 Excellence in Research Award	2021
	Winner, EAAMO New Horizons Award for Bridging Research and Practice	2021
	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

Reviewer
- Journals: *Management Science, Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, IISE 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)

Session Chair
- INFORMS Annual Meeting, Anaheim, 2021

Program Committee
- ACM Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO) (2021)

Academic Service
- Business Analytics Task Force Committee Member, '22 (Pitt)
- Faculty Search Committee Member, '22 (Pitt)
- PhD Admissions Committee Member, '22 (Pitt)
- Instructor/Coach for Katz Super Analytics Challenge (SAC), '21, '22 (Pitt)
- Co-organizer, Discussant Lead for the 50th *NBER Decentralization Conference: Mechanism Design for Vulnerable Populations*
- Faculty Mentor for *ACM Economics and Computation (EC)*, '20
- Academic Job Market Panel Organizer, '18 (Columbia)
- IEOR-DRO Seminar Student Organizer, '17 (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.