

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*
Assistant Professor

Education **Columbia University**, New York, NY Fall 2014 - Spring 2019
Department of Industrial Engineering and Operations Research
Ph.D. in Operations Research
• Thesis: *Pricing Tools and Analysis for Emerging e-Commerce Technologies*
• Advisor: Adam N. Elmachtoub

Rutgers University, New Brunswick, NJ Fall 2010 - Spring 2014
B.S. in Mathematics
• Minors in Computer Science and Operations Research

Papers

1. Chen, N., Elmachtoub, A., Hamilton, M., Lei, X., *Loot Box Pricing and Design*. Minor Revision at **Management Science**.
 - 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.
2. Elmachtoub, A., Gupta, V., Hamilton, M., *The Value of Personalized Pricing*. **Management Science** (Forthcoming).
 - 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*. Minor Revision at **Management Science**.
 - Accepted to the 13th Conference on Web and Internet Economics (**WINE**), 2017

Previous Papers 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.

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).

Professional Experience **MediaMath**, New York, NY Summer 2017
Research Science Intern

Amazon Research, Seattle WA. Summer 2016
Research Science Intern

Presentations

Notes: (*) symbol implies talk was given by a coauthor in a conference without proceedings. The (C) implies the talk was 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

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
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

**University
Service**

2018 Academic Job Market Panel Organizer (Columbia)
2017 IEOR-DRO Seminar Student Organizer (Columbia)
Journal reviewer for *IIE Transactions*.
Conference reviewer for *ACM Economics and Computation (EC)* (2020).

Misc.

Languages: *Python, R, Julia, Matlab, Java, LaTeX*
Volunteering: *School 2 Career (S2C) Volunteer Tutor*
Citizenship: *USA*
References available by request.