

## Michael L. Hamilton

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|-------------------------|---|--|
| Employment              | <b>University of Pittsburgh</b> , Pittsburgh, PA<br><i>Katz Graduate School of Business</i><br>Area: <i>Business Analytics and Operations</i><br>Assistant Professor  | Summer 2019 -  |
| Education               | <b>Columbia University</b> , New York, NY<br><i>Department of Industrial Engineering and Operations Research</i><br>Ph.D. in Operations Research <ul style="list-style-type: none"><li>• Advisor: Adam N. Elmachtoub</li><li>• Thesis: <i>Pricing Tools and Analysis for Emerging e-Commerce Technologies</i></li></ul> <b>Rutgers University</b> , New Brunswick, NJ<br>B.S. in Mathematics <ul style="list-style-type: none"><li>• Minors in Computer Science and Operations Research</li></ul>   | Fall 2014 - Spring 2019<br><br>Fall 2010 - Spring 2014 |
| Papers                  | Chen, N., Elmachtoub, A., Hamilton, M., Lei, X., <i>The Pricing and Design of Loot Boxes</i> . Major Revision at <b>Management Science</b> . <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> Elmachtoub, A., Gupta, V., Hamilton, M., <i>The Value of Personalized Pricing</i> . Minor Revision at <b>Management Science</b> . <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> Elmachtoub, A., Hamilton, M., <i>The Power of Opaque Products in Pricing</i> . Minor Revision at <b>Management Science</b> . <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> |  |
| Previous Papers         | Hoang, P., <b>Hamilton, M.</b> , Murray, J., Stafford, C., & Tran, H. <i>A Dynamic Feature Selection Based LDA Approach to Baseball Pitch Prediction</i> . Trends and applications in knowledge discovery and data mining (2015), 125-137.<br><br><b>Hamilton, M.</b> , Hoang, L. Layne, J. Murray, D. Padget, C. Stafford, & H. Tran. <i>Applying Machine Learning Techniques to Baseball Pitch Prediction</i> . Proc. of the 3rd Int. Conf. on Pattern Recognition Applications and Methods (2014).   |  |
| Professional Experience | <b>MediaMath</b> , New York, NY<br><i>Research Science Intern</i><br><br><b>Amazon Research</b> , Seattle WA.<br><i>Research Science Intern</i>   | Summer 2017<br><br>Summer 2016                         |

**North Carolina State University**, Raleigh, NC  
*Undergraduate Researcher*

Summer 2013

**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 2018, Phoenix AZ. Oct. 2018
- INFORMS Annual Meeting 2017, Houston TX. Oct. 2017

*“The Power of Opaque Products in Pricing”*

- 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 *IIEE Transactions*.  
Conference reviewer for *Economics and Computation (EC)* (2020).

**Misc.**

Languages: Python, R, Julia, Matlab, Java, LaTeX  
Citizenship: USA