

Adam N. Elmachtoub

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Updated November 22, 2021

EXPERIENCE

Columbia University

New York, NY

*Department of Industrial Engineering and Operations Research (IEOR)
Data Science Institute (DSI)*

- Associate Professor (without tenure), January 2021 - present
- Assistant Professor, August 2015 - December 2020

IBM T.J. Watson Research Center

Yorktown Heights, NY

Department of Business Analytics and Mathematical Sciences

- Postdoctoral Researcher in Smarter Commerce, August 2014 - July 2015

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Ph.D. in Operations Research

September 2009 - June 2014

- Advisor: Retsef Levi
- Track: Operations Management
- Thesis: *New Approaches for Integrating Revenue and Supply Chain Management*

Cornell University

Ithaca, NY

B.S. (with Honors) in Operations Research and Engineering

August 2006 - May 2009

- Minor: Applied Mathematics

FIELDS OF SPECIALIZATION

Prescriptive Analytics, Revenue Management & Pricing, Machine Learning, Supply Chain & Logistics

ADVISING

Ph.D. Students

- Yunfan Zhao
- Harsh Sheth (co-advised with Vineet Goyal)
- Xiao Lei

- Yeqing Zhou (2021)
Supply Chain and Service Operations with Demand-Side Flexibility
Assistant Professor at Eindhoven University of Technology (TU/e), Industrial Eng. & Innovation Sciences
- Ryan McNellis (2019)
Training Decision Trees for Optimal Decision-Making
Applied Research Scientist at Amazon
- Yunjie Sun (2019)
Pricing Analytics for Reusable Resources
Senior Data Scientist at Tripadvisor, now at ASML
- Michael Hamilton (2019)
Pricing Tools and Analysis for Emerging e-Commerce Technologies
Assistant Professor at University of Pittsburgh, Katz Graduate School of Business

Postdoctoral Researchers

- Mingliu Chen

Ph.D. Thesis Committee Member: Steven Yin, Sai Mali Ananthanarayanan, Jingtong Zhao (2021), Fengpei Li (2021), Kumar Goutam (2020), Shuoguang Yang (2020), Min-hwan Oh (2020), Randy Jia (2020), Vladlena Powers (2020), Zhe Liu (2019, Columbia Business School), Ashraf Chamseddine (2019, American University of Beirut), Suraj Keshri (2019), Shuangyu Wang (2018), Francois Fagan (2018), Xinshang Wang (2017)

M.S. Students: Jiaqi Shi (2021), Weixuan Tang (2020), Zining Fan (2020), Othman El Balghiti (2019), Alexandra Tardif (2018), Xiao Lei (2018 → Columbia Ph.D.), Cheng Guo (2017 → U. Toronto Ph.D.), Yeqing Zhou (2016 → Columbia Ph.D.)

B.S. Students: Alexander Jermann (2021), Chiara Régniez (2020 → Columbia Ph.D.), Alysha Hudson (2020), Jinglei Zhang (2019), Jason Liang (2018 → MIT Ph.D.), Omar Abboud (2016 → Harvard M.S.)

AWARDS

- Great Teacher Award, Society of Columbia Graduates, 2021
- 1st place, INFORMS Junior Faculty Interest Group (JFIG) Paper Competition, 2020
- NSF CAREER Award, 2020
- 1st place for advisee Xiao Lei, INFORMS IBM Best Student Paper Award in Service Science, 2019
- Finalist, Daniel H. Wagner Prize for Excellence in Operations Research Practice, 2019
- Finalist, INFORMS Revenue Management and Pricing (RMP) Practice Award, 2019
- Finalist, INFORMS Best Cluster Paper Award in Service Science, 2018
- IBM Faculty Award, 2016
- Forbes 30 under 30 in science, 2016
- National Defense Science and Engineering Graduate (NDSEG) Fellow, AFOSR, 2009-2012

- MIT Charles M. Vest Presidential Fellow, 2009
- Degree Marshall for Cornell University, 2009 (Top 2 Graduating Students in School of Engineering)
- Byron W. Saunders Prize, 2009 (Top 2 Graduating Students in Cornell School of ORIE)
- Merrill Presidential Scholar, 2009 (Top 1% Graduating Students at Cornell University)

FUNDING

Total funding so far is **\$1,458,624**.

- National Science Foundation, CMMI-1944428 - *CAREER: Enhancing E-commerce and Service Systems by Embracing Consumer Flexibility* (PI), 2020-2025 (\$594,418)
- Columbia University - Technology Innovations for Urban Living in the Face of COVID-19, *Designing Safe Elevator Systems amidst a Pandemic* (PI with Charles Branas and Cliff Stein), 2020-2021 (\$85,000)
- Dassault Falcon Jet - Industry Collaboration (PI), 2019 (\$132,500)
- National Science Foundation, CMMI-1763000 - *Collaborative Research: Operations-Driven Machine Learning* (PI), 2018-2022 (\$314,206)
- Dassault Falcon Jet - Industry Collaboration (PI), 2018 (\$142,500)
- Dassault Falcon Jet - Industry Collaboration (PI), 2017 (\$150,000)
- IBM Faculty Award - *Cognitive Analytics for Personalized Pricing and Offers*, 2016 (\$40,000)

PUBLICATIONS

Notes: (i) Underlined authors are students I advised. (ii) The default author order is alphabetical.

1. Maxime C. Cohen, Adam N. Elmachtoub, and Xiao Lei. *Price Discrimination with Fairness Constraints*. **Management Science**, forthcoming.
 - Accepted to The 4th ACM Conference on Fairness, Accountability, and Transparency (**FAccT**), 2021.
 - Oral presentation at The 4th Workshop on Mechanism Design for Social Good (**MD4SG**), 2020.
2. Adam N. Elmachtoub and Paul Grigas. *Smart “Predict, then Optimize”*. **Management Science**, forthcoming.
 - 1st place, INFORMS Junior Faculty Interest Group (JFIG) Paper Competition, 2020.
3. Omar Besbes, Adam N. Elmachtoub, and Yunjie Sun. *Static Pricing: Universal Guarantees for Reusable Resources*. **Operations Research**, forthcoming.
 - Accepted to The 20th ACM Conference on Economics and Computation (**EC**), 2019.
 - Finalist (part 1 of 2), INFORMS Revenue Management and Pricing (RMP) Practice Award, 2019.
4. Adam N. Elmachtoub, Vishal Gupta, and Michael L. Hamilton. *The Value of Personalized Pricing*. **Management Science**, Vol. 67(10), p. 6055-6070, 2021.
 - Accepted to The 15th Conference on Web and Internet Economics (**WINE**), 2019.

- Finalist, INFORMS Best Cluster Paper Award in Service Science, 2018.
5. Ningyuan Chen, Adam N. Elmachtoub, Michael L. Hamilton, and Xiao Lei. *Loot Box Pricing and Design*. **Management Science**, Vol. 67(8), p. 4809–4825, 2021.
 - Third Prize, CSAMSE Annual Conference Best Paper Award Competition, 2021.
 - Accepted to The 21st ACM Conference on Economics and Computation (**EC**), 2020.
 - Invited to present at the Federal Trade Commission (FTC) Workshop on Consumer Issues Related to Loot Boxes, 2019 (one of four research papers selected).
 - 1st place for Xiao Lei, INFORMS IBM Best Student Paper Award in Service Science, 2019.
 6. Adam N. Elmachtoub and Michael L. Hamilton. *The Power of Opaque Products in Pricing*. **Management Science**, Vol. 67(8), p. 4686–4702, 2021.
 - Feature article, discussion in Management Science Review, 2021.
 - Accepted to The 13th Conference on Web and Internet Economics (**WINE**), 2017.
 7. Adam N. Elmachtoub, Jason C. N. Liang, and Ryan McNellis. *Decision Trees for Decision-Making under the Predict-then-Optimize Framework*. Proceedings of the 37th International Conference on Machine Learning (**ICML**), p. 2858-2867, 2020.
 8. Omar Besbes, Adam N. Elmachtoub, and Yunjie Sun. *Pricing Analytics for Rotable Spare Parts*. **INFORMS Journal on Applied Analytics**, Vol. 50(5), p. 313-324, 2020.
 - Finalist, Daniel H. Wagner Prize for Excellence in Operations Research Practice, 2019.
 - Finalist (part 2 of 2), INFORMS Revenue Management and Pricing (RMP) Practice Award, 2019.
 9. Adam N. Elmachtoub, Ryan McNellis, Sechan Oh, and Marek Petrik. *A Practical Method for Solving Contextual Bandit Problems Using Decision Trees*. Proceedings of the 33rd Conference on Uncertainty in Artificial Intelligence (**UAI**), 2017.
 - Invited for oral presentation (top 10% of submissions).
 10. Adam N. Elmachtoub and Retsef Levi. *Supply Chain Management with Online Customer Selection*. **Operations Research**, Vol. 64(2), p. 458-473, 2016.
 11. Maurice Cheung, Adam N. Elmachtoub, Retsef Levi, and David B. Shmoys. *The Submodular Joint Replenishment Problem*. **Mathematical Programming**, Vol. 158(1), p. 207-233, 2016.
 12. Adam N. Elmachtoub and Retsef Levi. *From Cost Sharing Mechanisms to Online Selection Problems*. **Mathematics of Operations Research**, Vol. 40(3), p. 542-557, 2015.
 - INFORMS President’s Pick for October 2015.
 13. Daniel Sheldon, Bistra Dilkina, Adam N. Elmachtoub, Ryan Finseth, Ashish Sabharwal, Jon Conrad, Carla Gomes, David Shmoys, William Allen, Ole Amundsen, and William Vaughan. *Maximizing the Spread of Cascades Using Network Design*. Proceedings of the 26th Conference on Uncertainty in Artificial Intelligence (**UAI**), p. 517-526, 2010.
 - Invited for oral presentation (top 12% of submissions).
 14. Adam N. Elmachtoub and Charles F. Van Loan. *From Random Polygon to Ellipse: An Eigenanalysis*. **SIAM Review**, Vol. 52(1), p. 151-170, 2010.
 - Charles F. Van Loan selected this work as the subject for his 2018 John von Neumann Lecture.

SUBMITTED PAPERS

15. Mingliu Chen, Adam N. Elmachtoub, and Xiao Lei. *Matchmaking Strategies for Maximizing Player Engagement in Video Games*. First version: September 2021.
16. Sai Mali Ananthanarayanan, Charles C. Branas, Adam N. Elmachtoub, Clifford Stein, and Yeqing Zhou. *Queueing Safely for Elevator Systems amidst a Pandemic*. First version: December 2020. Current version: August 2021. Minor revision in **Production and Operations Management**.
 - Accepted to The 1st ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (**EAAMO**), 2021.
17. Adam N. Elmachtoub, David D. Yao, and Yeqing Zhou. *The Value of Flexibility from Opaque Selling*. First version: November 2019. Major revision in **Management Science**.
18. Ali Aouad, Adam N. Elmachtoub, Kris J. Ferreira, and Ryan McNellis. *Market Segmentation Trees*. First version: June 2019. Current version: January 2020. Major revision in **Manufacturing & Service Operations Management**.
19. Othman El Balghiti, Adam N. Elmachtoub, Paul Grigas, and Ambuj Tewari. *Generalization Bounds in the Predict-then-Optimize Framework*. First version: May 2019. Current version: July 2021.
 - Accepted to Neural Information Processing Systems 32 (**NeurIPS**), 2019.
20. Adam N. Elmachtoub, Yehua Wei, and Yeqing Zhou. *Retailing with Opaque Products*. First version: September 2015. Current version: July 2020. Major revision in **Manufacturing & Service Operations Management**.

TEACHING

- **Columbia University**

Instructor - Data provided is (Number of Students, Interpolated Median of Course Rating out of 5, Interpolated Median of Instructor Rating out of 5)

- EL 7011 - Data Analytics for Law (Executive L.L.M.): Summer 2020, Summer 2021
- IEOR 4418 - Transportation Analytics and Logistics (B.S./M.S elective): Fall 2016 (18, 4.83, 4.88), Spring 2018 (31, 4.94, 4.92), Spring 2019 (27, 4.77, 4.85), Spring 2020 (25, N/A due to covid-19), Spring 2021 (15, 4.91, 4.91), Spring 2022
- IEOR 4650 - Business Analytics (B.S.): Spring 2017 (20, 4.92, 4.86), Spring 2018 (55, 4.64, 4.73), Spring 2020 (33, N/A due to COVID-19), Spring 2021 (41, 4.63, 4.63), Spring 2022
- IEOR 4650 - Business Analytics (M.S.): Spring 2016 (62, 4.52, 4.48), Spring 2017 (72, 4.71, 4.85), Spring 2018 (47, 4.83, 4.92), Spring 2019 x2 (76/78, 4.25, 4.27), Fall 2020 (63, 4.71, 4.83)
- IEOR 8100 - Supply Chain Management (Ph.D.): Spring 2016 (10, 4.92, 5.00)
- IEOR 8100 - Contextual Optimization for Prescriptive Analytics (Ph.D.): Fall 2019 (9, 4.88, 5.00)

- **Massachusetts Institute of Technology**

Teaching Assistant

- 15.734 - Operations Management (Executive MBA): Spring 2013 (6.68/7)
- 15.060 - Data, Models, and Decisions (MBA): Fall 2012 (4.47/5)

- **Cornell University**

Teaching Assistant

- ORIE 3300/5300 - Optimization I (B.S./ M. Eng.): Fall 2008 (4.57/5)
- ENGRG 2940 - Academic Excellence Workshop for Linear Algebra (B.S.): Fall 2007

INDUSTRY EXPERIENCE

NYC Mayor's Office (pandemic logistics, 2020-2021), FreshDirect (online grocery, 2019-present), Graham Windham (foster care, 2018-present), MediaMath (online advertising, 2017-2019), Dassault Falcon (private jets, 2016-2019), IBM (analytics, 2014-2016), NBA (basketball, 2014), Tampa Bay Rays (baseball, 2012), Novartis (pharmaceuticals, 2012), ZS Associates (consulting, 2008)

PATENTS

Adam N. Elmachtoub, Markus R. Ettl, Sechan Oh, Marek Petrik, and Rajesh K. Ravi. Determining feature importance and target population in the context of promotion recommendation. US Patent 10546320, 2020 (granted).

Adam N. Elmachtoub, Markus R. Ettl, Sechan Oh, Marek Petrik, and Rajesh K. Ravi. Segmentation based estimation method for demand models under censored data. US Patent 2018/0060885 (published).

Adam N. Elmachtoub and Roger Lederman. Revenue management using dynamic customer selection. US Patent 2017/0358001 (published).

Adam N. Elmachtoub, Markus R. Ettl, Sechan Oh, Marek Petrik, and Rajesh K. Ravi. Training a machine to dynamically determine and communicate customized, product-dependent promotions with no or limited historical data over a network. US Patent 2017/0046732 (published).

INVITED TALKS

- University of Southern California, ISE Seminar, Virtual, March 2022
- Rotterdam School of Management, TOM Seminar, Rotterdam, NL, January 2022
- UT Austin, McCombs IROM Seminar, Austin, TX, November 2021
- University of Western Ontario, Ivey Seminar, Virtual, November 2021
- HKUST Business School, ISOM Seminar, Virtual, October 2021
- University of British Columbia, Sauder OpLog Seminar, Vancouver, CA, October 2021
- CPAIOR, **Invited Speaker**, Virtual, July 2021
- Canadian OR Society (CORS) Annual Conference, **Invited Tutorial**, Virtual, June 2021
- Arizona State University, IE Decision Systems Engineering Seminar, Virtual, April 2021

- Boston College, Carroll BA Seminar, Virtual, April 2021
- New York University, Stern IOMS Seminar, Virtual, March 2021
- Unilever, Keynote Speaker at Gobal Data Science Conference, Virtual, November 2020
- Massachusetts Institute of Technology, ORC Seminar, Virtual, October 2020
- Boğaziçi University, IE Seminar, Virtual, October 2020
- Duke University, Fuqua OM Seminar, Virtual September 2020
- Georgia Tech, ISyE Seminar, Virtual, September 2020
- American University of Beirut, IE Seminar, Virtual, September 2020
- Baruch College, Omega Seminar, Virtual, September 2020
- Rutgers University, ISE Seminar, Piscataway, NJ, February 2020
- University of Toronto, MIE OR Seminar, Toronto, CN, December 2019
- McGill University, Desautels OM Seminar, Montreal, CN, December 2019
- Columbia University, Business Analytics Initiative, New York, NY, November 2019
- Lehigh University, ISE Seminar, Bethlehem, PA, September 2019
- University of Rochester, Simon OM Seminar, Rochester, NY, May 2019
- University of Michigan, IOE Seminar, Ann Arbor, MI, March 2019
- UCLA, Anderson DOTM Seminar, Los Angeles, CA, November 2018
- Columbia University, IEOR Colloquium, New York, NY, November 2018
- Institute of Mathematics and Applications, U. of Minnesota, Minneapolis, MN, October 2018
- Uber, San Francisco, CA, August 2018
- Massachusetts Institute of Technology, Sloan OM Seminar, Cambridge, MA, May 2018
- Yahoo Research, New York, NY, May 2018
- UC Berkeley, IEOR Seminar, Berkeley, CA, September 2017
- University of Southern California, Marshall DSO Seminar, Los Angeles, CA, September 2017
- Mostly OM, Tsinghua University, Beijing, China, May 2017
- Jet.com, Hoboken, NJ, March 2017
- New York University, Stern IOMS Seminar, New York, NY, October 2016
- Columbia University, Business Analytics Initiative, New York, NY, November 2016
- IBM T.J. Watson Research Center, AP For Lunch, Yorktown Heights, NY, July 2015

- Duke University, Fuqua DS Seminar, Durham, NC, March 2015
- IBM T.J. Watson Research Center, IP For Lunch, Yorktown Heights, NY, March 2015
- Harvard-MIT OM Student Seminar, Boston, MA October 2011
- Massachusetts Institute of Technology, Sloan OM Seminar, Cambridge, MA, February 2011

CONFERENCE AND WORKSHOP PRESENTATIONS

*A * symbol implies I attended but the presentation was given by a coauthor.*

- INFORMS Annual Meeting, Anaheim, CA, October 2021
- Revenue Management & Pricing Conference, Virtual, June 2021
- MSOM Conference, Virtual, June 2021*
- Canadian OR Society (CORS) Annual Conference, Virtual, June 2021
- Crossing Disciplines: Studying Fairness, Bias, and Inequality in Management and Decision Sciences Research, Harvard Business School, Virtual, May 2021
- FAccT, Virtual, March 2021*
- INFORMS Annual Meeting, Virtual, November 2020
- MD4SG, Virtual, August 2020*
- UC Berkeley, Berkeley-Columbia Meeting in Eng. and Statistics, Berkeley, CA, February 2020
- NeurIPS, Vancouver, Canada, December 2019*
- INFORMS Annual Meeting, Seattle, WA, October 2019
- Revenue Management & Pricing Conference, Stanford, CA, June 2019
- Machine Learning in Science and Engineering (MLSE) Conference, Atlanta, GA, June 2019
- EC, Phoenix, AZ, June 2019
- INFORMS Annual Meeting, Phoenix, AZ, November 2018*
- MSOM Conference, Dallas, TX, July 2018*
- EURO Conference, Barcelona, SP, July 2018
- Conference on Statistical Learning and Data Science, New York, NY, June 2018
- Revenue Management & Pricing Conference, Toronto, CN, June 2018
- ISMP Conference, Bordeaux, France, July 2018*
- INFORMS Optimization Society Meeting, Denver, CO, May 2018
- MSOM Conference, Chapel Hill, NC, June 2017*

- INFORMS Annual Meeting, Houston, TX, October 2017
- INFORMS Annual Meeting, Nashville, TN, November 2016
- ICCOPT, Tokyo, Japan, August 2016
- Revenue Management & Pricing Conference, New York, NY, June 2016*
- POMS Annual Conference, Orlando, FL, May 2016
- INFORMS Annual Meeting, Philadelphia, PA, November 2015
- Revenue Management & Pricing Conference, New York, NY, June 2015
- MSOM Conference, Toronto, Canada, June 2015
- ISMP Conference, Pittsburgh, PA, June 2015
- INFORMS Annual Meeting, San Francisco, CA, November 2014
- INFORMS Annual Meeting, Minneapolis, MN, October 2013
- MSOM Conference, New York, NY, June 2012
- INFORMS Annual Meeting, Phoenix, AZ, October 2012
- ISMP Conference, Berlin, Germany, August 2012
- INFORMS Annual Meeting, Charlotte, NC, November 2011
- MSOM Conference, Ann Arbor, MI, June 2011
- INFORMS Annual Meeting, Austin, TX, November 2010

INVITED PANELS / GUEST LECTURES

- *Pricing Analytics*, Columbia Summer Undergraduate Research Experiences in Mathematical Modeling, July 2021
- *The Next Normal: Industry Leaders on What to Expect Post-Pandemic*, Columbia Arab Alumni Association, April 2021
- *Contextual Optimization*, Statistical Learning for Operations by David Simchi-Levi at MIT, April 2021
- *Selling Random Stuff*, Intro to OR Freshman Seminar, January 2021
- *Preparing a CAREER Proposal*, INFORMS New Faculty Colloquium, November 2020
- *Contextual Optimization*, ML for Algorithm Design by Eric Balkanski at Columbia, October 2020
- *Personalized Pricing and Fairness*, AI4ALL, June 2020
- *Pricing Analytics*, Intro to OM by Vishal Gupta at USC, April 2020
- *Optimization*, MIT ORC 65th Anniversary, November 2018
- *Engineering your Ph.D.*, Columbia, August 2018
- *Selling Random Stuff*, Egleston Scholar Seminar at Columbia, August 2018

UNIVERSITY SERVICE

Helped lead initiatives in modernizing course names (Spring 2016), business analytics programs (Fall 2016-Fall 2017), website (Fall 2018-Spring 2020)

Co-organizer of 1st Year Ph.D. Seminar (Fall 2016-Fall 2020)

Co-organizer of The IEOR Colloquium (Fall 2018-present)

Co-organizer of IEOR-DRO Seminar (Fall 2015-Fall 2017)

Faculty advisor for Columbia INFORMS student chapter, (Spring 2016-present). *The chapter has earned the INFORMS Student Chapter Annual Award: Cum Laude in 2016 and 2017.*

Faculty advisor for Columbia Mathematical Contest in Modeling (MCM) team (2017-2019). *Team received Finalist designation in 2017 and Meritorious Winner in 2018 and 2019.*

Judge for DSI Best Student Project Competition, 2021

Columbia IEOR Ph.D. Admissions Committee (2016-2018, 2020-2021)

Columbia IEOR M.S. Admissions Committee (2016-2021)

Columbia IEOR Hiring Committee (2016-2017, 2017-2018, 2018-2019, 2021-2022)

Columbia DSI Hiring Committee (2015-2016)

Columbia DSI M.S. Admissions Committee (2020-2021)

Columbia DSI Postdoctoral Fellows Hiring Committee (2020)

Proposal Reviewer for Columbia SEAS Interdisciplinary Research Seed (SIRS) (2018)

Founder of MIT Mathematical Contest in Modeling (MCM) Competition

Founder of MIT ORC Resources for Easing Friction and Stress (REFS) Program

MIT Teaching Certificate, 2012

Co-organizer of Fall 2012 MIT Operations Research Seminar

ACADEMIC SERVICE

Co-founder and co-organizer of NYC Operations Day (2018 at NYU, 2019 at Columbia, 2020 canceled last minute due to COVID-19, 2021 canceled due to COVID-19, 2022 at Cornell Tech)

Associate Editor for *Management Science* (2021-present)

Associate Editor for *Manufacturing & Service Operations Management* (2021-present)

Senior Editor for *Production and Operations Management* (2021-present)

Associate Editor for *Service Science* (2019-present)

Co-chair of MSOM Supply Chain SIG Conference, Kelley School of Business, Indiana U, June 2021

Panelist, National Science Foundation (NSF), Operations Engineering (OE) program (2019), Small Business Innovation Research (SBIR) program (2021)

Co-organizer of Master Class day CPAIOR (2022), *End-to-end Learning and Optimization*

Co-chair of Industrial Engineering and Operations Research track, Machine Learning in Science and Engineering (MLSE) conference, Georgia Tech, June 2019

Session Chair for INFORMS (2015-2021), EURO (2018)

Member of INFORMS, MSOM, MOS, POMS

Journal Reviewer for *Management Science* (Meritorious Service Award in 2017 and 2019, Distinguished

Service Award in 2020), *Mathematics of Operations Research*, *Operations Research*, *Mathematical Programming*, *Manufacturing & Service Operations Management*, *Transportation Science*, *Production and Operations Management*, *Naval Research Logistics*, *INFORMS Journal on Optimization*, *npj Digital Medicine*, *European Journal of Operations Research*, and *Mathematical Methods of Operations Research*

Program Committee member for *Economics and Computation (EC)* (2020-2021), *Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO)* (2021)

Conference Reviewer for *MSOM Supply Chain SIG Conference* (2015), *MSOM Service Operations SIG Conference* (2018), *Conference on Uncertainty in Artificial Intelligence (UAI)* (2019), *International Conference in Machine Learning (ICML)* (2019), *Conference on Integer Programming and Combinatorial Optimization (IPCO)* (2020), and *International Conference on Artificial Intelligence and Statistics (AISTATS)* (2021)

Judge for George Nicholson Student Paper Competition (2020-2021), MSOM Student Paper Competition (2021), and POM Supply Chain College Student Paper Competition (2016-2018, 2020-2021)

MEDIA COVERAGE

“*Automatically Better: How algorithms became a top business asset.*” Columbia Engineering Magazine. June 16, 2021.

<https://magazine.engineering.columbia.edu/focus/ai/fintech-and-business-analytics>

“*COVID & Elevators: A Dangerous Mix, But Here’s How to Make It Safer.*” U.S. News. February 17, 2021.

<https://www.usnews.com/news/health-news/articles/2021-02-17/covid-elevators-a-dangerous-mix-but-heres-how-to-make-it-safer>

“*Sharing Elevators During COVID.*” NewsWise. February 9, 2021.

www.newswise.com/coronavirus/sharing-elevators-during-covid

“*Elevators could be a barrier to offices reopening.*” ConsumerAffairs. February 9, 2021.

www.consumeraffairs.com/news/coronavirus-update-case-numbers-move-in-the-right-direction-who-looks-for-the-virus-source-020921.html

“*Columbia data scientist designs better e-commerce systems.*” EurekAlert!. July 20, 2020.

www.eurekalert.org/pub_releases/2020-07/dsia-cds072020.php

“*Loot boxes are a matter of ‘life or death’ for problem gamblers, says researcher.*” PC Gamer. August 9, 2019.

www.pcgamer.com/loot-boxes-are-a-matter-of-life-or-death-for-problem-gamblers-says-researcher/

“*Loot boxes a matter of “life or death,” says researcher.*” Games Industry. August 8, 2019.

www.gamesindustry.biz/articles/2019-08-08-loot-boxes-a-matter-of-life-or-death

“*Your Holiday Impulses are the Stuff of On-Demand Logistical Nightmares.*” Wired. July 1, 2017.

www.wired.com/story/inside-the-black-magic-of-on-demand-holiday-delivery/

“10 Cornell alumni, 2 students make Forbes’ “30 Under 30” list.” The Ithaca Voice. January 20, 2016.
<https://ithacavoice.com/2016/01/9-cornell-alumni-2-students-make-forbes-30-under-30-list/>

“Integrating Supply Costs and Sales to Maximize Profits.” Columbia News. January 7, 2016.
<https://ieor.columbia.edu/adam-elmachtoub-integrating-supply-costs-and-sales-maximize-profits>

“25 from MIT named to Forbes 30 Under 30 lists in 2016.” The MIT Tech. January 7, 2016.
<http://news.mit.edu/2016/forbes-30-under-30-lists-0107>

“IEOR researchers investigate how retailers can employ opaque products to reduce costs.” Columbia Spectator. November 24, 2015.
www.columbiaspectator.com/news/2015/11/12/ieor-professor/

PERSONAL

Citizenship: USA and Lebanon

Languages: English, Arabic (fluent), Spanish (beginner)

Hobbies: Basketball, backgammon, soccer, stand-up comedy