Mohammad M. Fazel-Zarandi

Contact MIT Sloan School of Management Website: http://mitmgmtfaculty.mit.edu/mzarandi Information Massachusetts Institute of Technology Email: fazel@mit.edu Cambridge, MA MIT Sloan School of Management July 2018 - present Academic Position Senior Lecturer Yale School of Management Sept. 2016 - June 2018 Postdoctoral Associate and Lecturer RESEARCH Data-Driven Decision Making, Machine Learning, Public Policy

Interests **EDUCATION**

Rotman School of Management, University of Toronto

2016

Ph.D., Operations Management

Department of Mechanical and Industrial Engineering, University of Toronto

2011

M.S., Industrial Engineering

PUBLICATIONS

- 1. "Approximating the First-Come, First-Served Stochastic Matching Model with Ohm's Law," with Edward Kaplan, *Operations Research*, 66(5), 1423-1432, 2018.
- 2. "The Number of Undocumented Immigrants in the United States: Estimates Based on Demographic Modeling with Data from 1990-2016," with Edward Kaplan and Jonathan Feinstein, **PLOS ONE**, 13(9): e0201193, 2018.

Selected Media Coverage: Boston Globe, Los Angeles Times, New York Times, Bloomberg, Washington Post, Fox News, Hill, NPR, Mother Jones, National Review, Daily Mail, Politico.

- 3. "Truthful Cheap Talk: Why Operational Flexibility May Lead to Truthful Communication," with Oded Berman and Dmitry Krass, *Management Science*, 65(4), 1624-1641, 2019.
- 4. "Almost Robust Discrete Optimization," with O. Baron, O. Berman, V. Roshanaei, European Journal of Operational Research, 276(2), 451-465, 2019.
- 5. "Solving a Stochastic Facility Location/Fleet Management Problem with Logic-Based Benders Decomposition," with O. Berman and J.C. Beck, *IIE Transactions*, 45(8), 896-911, 2013.
- 6. "Using Logic-Based Benders Decomposition to Solve the Capacity and Distance Constrained Plant Location Problem," with J.C. Beck, *INFORMS Journal on Computing*, 399-415, 2012.
- 7. "Solving a location-allocation problem with logic-based Benders' decomposition." with J.C. Beck, Proceedings of the International Conference on Principles and Practice of Constraint Programming, 344-351, 2009.

- Working Papers 8. "Interpretable Machine Learning for Informing National Immigration Policy," with Dimitris Bertsimas.
 - 9. "Can Firms Benefit from Competition?," with Ig Horstmann and Frank Mathewson.

OTHER PUBLICATIONS

- "Prior estimates of undocumented immigrants in the US were way off," The Hill, Oct. 26, 2018.
- "How many undocumented immigrants there really are, and why the number matters," New York Daily News, Oct. 1, 2018.

TEACHING EXPERIENCE

MIT Sloan School of Management

- Statistical Thinking and Data Analysis, Undergraduate course Spring 2019, Spring 2020
- Engineering Statistics and Data Science, MBA/MS core course

 Summer 2019

Yale School of Management

• Revenue Management, MBA elective course

Spring 2018

• Supply Chain Management, MBA elective course

Spring 2017, Fall 2017

Rotman School of Management

• Operations Management, Undergraduate course

Fall 2015

SELECTED MEDIA COVERAGE

- Boston Globe: "Undocumented population is twice as large as previously thought, researchers sav."
- Los Angeles Times: "Number of immigrants in U.S. illegally could be double the widely accepted estimates, study suggests."
- New York Times: "Trump's Statistics About Undocumented Immigrants Are Questioned by Experts."
- Bloomberg: "MIT-Yale Study Doubles Estimates of U.S. Undocumented Immigrants."
- Fox News: "Number of illegal immigrants in US may be twice what's reported: Yale-MIT study."
- The Hill: "Yale, MIT study: 22 million, not 11 million, undocumented immigrants in US."
- Politico: "New study estimates 22M undocumented immigrants reside in the U.S."
- Daily Mail: "Study finds there are over 22million undocumented immigrants in the US more than double previous estimate."
- Washington Post: "President Trump tweets nonsensical figures on illegal immigration."
- NPR: "Yale-MIT study suggests number of undocumented immigrants may be double earlier estimates, we discuss methodology."
- *Mother Jones*: "A Study Says the Undocumented Population May Be Twice as Big as We Thought. Be Skeptical."
- National Review: "Yale Study: Twice as Many Undocumented Immigrants as Previously Thought in U.S."
- INFORMS: "The Number of Undocumented Immigrants in the United States."
- MIT Sloan: "Study: Undocumented Immigrants Population Roughly Double Current Estimate."
- Yale Insights: "Yale Study Finds Twice as Many Undocumented Immigrants as Previous Estimates."

AWARDS

Rotman Fellowship	2011-2015
Martin Evans Scholarship	2012-2014
Ontario Graduate Scholarship	2011-2012
University of Toronto Fellowship	2009-2010