

Colin Pawlowski

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Education **Massachusetts Institute of Technology**, Cambridge, MA
Candidate for Ph.D. in Operations Research; expected completion, 2019. GPA: 5.0/5.0
Supported by National Science Foundation (NSF) Graduate Research Fellowship.
Advisor: Dimitris Bertsimas

Yale University, New Haven, CT
B.S. in Mathematics (Intensive), May 2014.
GPA: 3.93/4.00; Magna Cum Laude, Phi Beta Kappa Society.

Work Experience

2017 **Wealthfront**, Redwood City, CA
(Summer) *Research Intern*
Built a research platform to evaluate financial planning strategies for retirement for an automated investment services firm.

2014 **Ancera, Inc.**, Branford, CT
(Summer) *Analytics Intern*
Brainstormed and strategized data approaches for biotech startup specializing in rapid microbial testing for food producers.

Research Experience

2014–Present MIT Operations Research Center, Cambridge, MA
Research Assistant
Advisor: Dimitris Bertsimas
Developed fast, tractable algorithms in machine learning for statistical inference using tools from optimization, with a focus on SVMs for classification, k -means clustering, and missing data imputation.

2013 **Mount Holyoke College REU**, South Hadley, MA
(Summer) *Undergraduate Researcher*
Advisor: Dylan Shepardson
Researched mathematical modeling and epidemiology. Programmed a population-level model for tuberculosis in the USA, with cost analysis for several intervention strategies.

2011-2012 **NASA Flight Opportunities Program**, Houston, TX
Microgravity Research Team Leader
Advisor: Andrew Szymkowiak

Led a team of six students; built a prototype of a 3-D cell culture apparatus and tested it aboard NASA's zero-gravity plane.

Teaching Experience

- 2017** **MIT Sloan School of Management**, Cambridge, MA
(Spring) *Teaching Assistant* for MBA course: The Analytics Edge (15.071)
Taught weekly recitations in the R programming language, developed and graded assignments, met with student groups to hone final project ideas.
- 2015** **MIT Sloan School of Management**, Cambridge, MA
(Fall) *Teaching Assistant* for MBA core course: Data, Models, and Decisions (15.060)
Taught weekly recitations, developed course materials and exams, worked one-on-one with students, graded assignments.

Publications

"From Predictive Methods to Missing Data Imputation: An Optimization Approach", with D. Bertsimas and Y. Zhuo; submitted to Journal of Machine Learning Research, 2017.

"Robust Classification", with D. Bertsimas, J. Dunn, and Y. Zhuo; submitted to INFORMS Journal on Optimization, 2017.

Honors and Awards

- 2016** athenahealth Hackathon Grand Prize
2015 NSF Graduate Fellowship
2012 Richter Summer Fellowship
2011 NASA Flight Opportunities Program, national research grant
2011 Connecticut Space Grant Consortium Project Grant

Skills and Activities

Programming: Java, Python, Julia
Mathematical Tools: Matlab, R

Volunteer, The Full Belly Project, Non-profit engineering group, 2010-2012

- Citizenship** Citizen of United States of America