

# Colin Pawlowski

Operations Research Center  
Massachusetts Institute of Technology  
77 Massachusetts Avenue, E40-130  
Cambridge, MA 02139-4307  
Email: cpawlows@mit.edu

318 Beacon St, Apt. 3  
Somerville, MA 02143  
(910) 617-9317

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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*  
Developed data collection and analytics tools 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  
Developing fast machine learning algorithms to perform statistical inference on noisy data and impute missing values. Working on applications in personalized medicine using large-scale EHR and genomic data.

**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

- 2018** (Spring) **MIT Sloan School of Management**, Cambridge, MA  
*Teaching Assistant* for 15.097: Machine Learning via a Modern Optimization Lens  
PhD seminar in statistics and machine learning. Taught weekly recitations, developed and graded assignments, met with student groups to hone final project ideas.
- 2017** (Spring) **MIT Sloan School of Management**, Cambridge, MA  
*Teaching Assistant* for 15.071: The Analytics Edge  
MBA elective course on data science and machine learning. Taught weekly recitations, developed and graded assignments, met with student groups to hone final project ideas.
- 2015** (Fall) **MIT Sloan School of Management**, Cambridge, MA  
*Teaching Assistant* for 15.060: Data, Models, and Decisions  
MBA core course on probability and optimization. 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; JMLR, 2018.

*"An Applied Informatics Decision Support Tool for Mortality Predictions in Cancer Patients"*, with D. Bertsimas, J. Dunn, A. Weinstein, Y. Zhuo, E. Chen, and A. Elfiky. To appear in JCO Clinical Cancer Informatics, 2018.

*"Robust Classification"*, with D. Bertsimas, J. Dunn, and Y. Zhuo; To appear in INFORMS Journal on Optimization, 2018.

## 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:* R, Julia, Python

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

- Citizenship** Citizen of United States of America