## 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: Prof. 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 MIT Sloan School of Management, Cambridge, MA

(Spring) *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 MIT Sloan School of Management, Cambridge, MA

(Spring) *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 MIT Sloan School of Management, Cambridge, MA

(Fall) 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**

"Imputation of Clinical Covariates in Time Series", with D. Bertsimas and A. Orfanoudaki; To appear in NeurIPS ML4H Workshop, 2018.

"From Predictive Methods to Missing Data Imputation: An Optimization Approach", with D. Bertsimas and Y. Zhuo; JMLR, 2018.

"Applied Informatics Decision Support Tool for Mortality Predictions in Patients with Cancer", with D. Bertsimas, J. Dunn, A. Weinstein, Y. Zhuo, E. Chen, and A. Elfiky; 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