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

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

2014 (Summer) **Ancera, Inc.**, Branford, CT
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 (Summer) **Mount Holyoke College REU**, South Hadley, MA
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; To appear in 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