TIMOTHY SCULLY

timscul@gmail.com

EDUCATION

Massachusetts Institute of Technology Cambridge, MA
- *Masters of Science in Operations Research, GPA 4.9/5* June 2017

Columbia University New York, NY
- *Postbaccalaureate Study in Statistics and Computer Science* September 2012

Tufts University Medford, MA
- *Bachelor of Arts in Mathematics, Bachelor of Arts in Quantitative Economics* May 2011
- Summa Cum Laude, Phi Beta Kappa, National Merit Scholar

EXPERIENCE

Wayfair Boston, MA
Data Scientist 2014-Present
- Developed, tested, and productionalized machine learning models relating to optimal pricing and inventory management

Massachusetts Institute of Technology, Operations Research Center Cambridge, MA
Graduate Research Assistant and Teaching Assistant 2014-2017
- Developed integer optimization models to redesign liver transplant allocation in order to promote more equitable access, which contributed to the policy proposal by the national transplant policy board
- Assisted in the teaching, content creation, and grading of a project-based course on transportation

Transport for London: Analytics Group London, UK
Analytics Research, Graduate Intern 2015
- Conducted research on classification algorithms to infer trip mode using phone sensor data with 95% accuracy
- Protyped an analytics dashboard using D3 that incorporates predictions to display real-time demand by trip mode

Charles River Associates: Competition and Antitrust Boston, MA
Antitrust Associate 2013-2014
- Performed econometric analysis in R, Stata, and SAS to evaluate antitrust risk and estimate price effects
- Estimated demand and discrete choice models to quantify consumer and market behavior under different scenarios
- Communicated directly with clients and organizations to request data, summarize analysis, and discuss insights

Columbia Business School New York, New York
Research Associate, Program for Financial Studies 2011-2012
- Performed econometric modeling relating to financial markets and investor behavior
- Interfaced with professors to identify and accomplish research goals by managing a small team of RAs

MassMutual Financial Company: Corporate Actuarial Springfield, MA
Actuarial Intern: Valuation and Modeling 2010
- Developed regression model to predict short-term insurance claims for specific products, which resulted in a 6% increase in accuracy over current model.

SKILLS

- Expert: R, Python, Stata. Proficient: SQL, Julia, Matlab, SAS, Java, C++