

CARRIE FOWLE

EDUCATION

MIT SLOAN SCHOOL OF MANAGEMENT

Cambridge, MA

Candidate for Master of Business Analytics, Operations Research Center, Aug 2020

Aug 2019 - Present

- Courses: Modeling with ML, Supply Chain Planning, Marketing Analytics, Machine Learning under Modern Optimization Lens, Applied Probability, Optimization Methods
- Awards: MIT Undergraduate Women's Fellowship

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

Bachelor of Science in Mathematical Economics

Aug 2014 - Jun 2018

- Courses: Applied Data Science, Econometrics, Software Development, Algorithms, Linear Algebra, Real Analysis, User Interface Design, Intermediate Microeconomics, Macroeconomics, Economics of Incentives
- Leadership: First Female President of Xi Chapter of Tau Epsilon Phi, President of Musical Theatre Guild

EXPERIENCE

ESTÉE LAUDER COMPANIES

New York, NY

Data Science Intern (MIT Sloan Capstone Project)

Feb 2020 - Present

- Establish a quantitative relationship between multi-channel customer feedback and business performance to improve customer experience and sales

MIT OPERATIONS RESEARCH CENTER

Cambridge, MA

Research Assistant under Georgia Perakis

Sep 2019 - Present

- Formulate causal extension to novel ML method, increasing interpretability with XGBoost-comparable performance
- Communicate results with industry partner, Wayfair, applying model to entire product dataset (300 million+ observations) to develop interpretable product forecast

US SAILING ASSOCIATION

Bristol, RI

Data Science Project Lead (Volunteer)

Feb 2019 - Present

- Lead various teams to develop a sailor ranking algorithm, formulating generalizable solutions using optimization
- Scraped and analyzed 200,000+ online results in R to identify communities in sport; presented findings to CTO

THE BRATTLE GROUP

Boston, MA

Research Analyst – Leading Economic Consulting Firm

Jul 2018 - May 2019

- Wrote substantial sections of expert testimony, recommending \$1.7 billion in damages after major merger
- Extracted transactions from 10,000+ PDFs using Python & R to detect fraud in active criminal investigations
- Established and oversaw process for managing a database of 13,000+ case documents, using R and Excel to interface with a proprietary client system, saving 50+ man-hours for a 10-person team
- Researched telecommunications sector of a 1.3 billion-person market, scraping and analyzing data and assessing pricing models via domain knowledge to aid development of national music royalty system

OPENGOV

Redwood City, CA

Engineering Intern – Andreessen Horowitz Funded GovTech Startup

Jun 2016 - Aug 2016

- Built process-management tool, using JavaScript (React/Redux) to help city managers oversee budgeting process
- Wrote production-ready code for a beta-stage product within the Agile/Scrum methodologies

ADDITIONAL INFORMATION

Software: R (Dplyr, Shiny), Python (pandas, sklearn), Julia, SQL, Excel (including VBA)

Languages: French (Conversational), Italian (Beginner)

Volunteer: Communications Chair of Xi Chapter's Alumni Board, mentor to prospective students

Interests: Lover of couture sewing techniques; lifelong musical theatre aficionado; weekend pirate