

Stephen M. Lee

https://stephenlee.info
lee.stephen.michael@gmail.com
615.944.4486

Overview

Experienced data science manager working at the intersection of economics and computer science. Obsessed with prediction and causal inference. Eager to prototype quickly, implement for scalability, and deploy into production.

Skills

- *Data Science*..... R (tidyverse); Python (pyspark, pandas); MATLAB; Hadoop/Spark; Databricks.
- *Web Development*..... NodeJS; Go; Django REST Framework; Angular 8+; Bootstrap CSS.
- *Machine Learning*..... recurrent neural networks; clustering; basic recommendation systems.
- *Econometrics*..... causal inference; structural modeling; discrete choice; timeseries analysis.
- *Natural Language Processing*..... latent dirichlet allocation; LSTM; multinomial inverse regression.
- *Infrastructure*..... SQL; AWS; Azure; Windows; Linux (Debian); bash scripting; Docker; git.

Employment

FedEx Corporation:

Manager, Decision Science

June 2022 – Current

- Received the annual “Corporate 5-Star Award”, which is FedEx’s highest honor for performance.
- Labor and service insights work presented to Strategic Management Committee and Board of Directors.
- Led implementation of a new enterprise reporting tool that replaced the previous 20+ year old metrics. The new tool includes 24 metrics calculated from data that spans the organization. This was built in Azure cloud and utilizes custom Data Factory pipelines, scheduled Databricks notebooks, and a PowerBI front-end.

Sr. Decision Scientist

2021 – 2022

- Performed an ongoing analysis of national labor markets to anticipate the likely impacts of expiring fiscal benefits programs for each enterprise operating company, and connected this work with modeling of how shortages of front-line staffing impacts on-time service levels based on package volume.
- Managed our team’s daily Azure Data Factory pipelines for package scan-level data. Performed upgrades that have virtually eliminated pipeline failures, saving the team time and money on manual re-runs.
- Received two “Bravo Zulu” awards for the impact of the labor and staffing work. These awards are inspired by the founder of FedEx’s military service experience.

Econ One Research: *Economist*

2020 – 2021

- Provided damage estimates for plaintiffs in large antitrust cases (e.g. high profile pharmaceutical and financial securities fraud cases) using a variety of tools from statistics and econometrics.
- Published an article in Law360 titled “Managing Risks Of Algorithmic Bias In Corporate Decisions” ([link](#)).

Federal Reserve Bank of Chicago: *Research, Finance Department*

2019 – 2020

- Co-authored the finance memo used to brief the bank President before FOMC meetings.
- Maintained and upgraded proprietary MATLAB data management and visualization software that interfaced with various sources to regularly produce critical department briefing material.
- Research included studies of interest rate pricing for bank loans (using confidential Y14 bank reporting data), the effects of newly announced Fed corporate credit facilities on corporate bonds (in response to COVID-19), and the predictability of future interest rate policy based on speeches from the Federal Reserve Board of Governors (natural language processing).

University of Memphis: *Research Assistant, Economics and Computer Science*

2016 – 2019

Fanatics Apparel: *Planner*

2015 – 2016

Professional Golf

2013 – 2015

Education

University of Chicago: *Chicago, IL*

- M.B.A Class in Competitive Strategy 2019

University of Memphis: *Memphis, TN*

- M.S. Computer Science 2019
- M.A. Economics 2018
- B.S. Physics 2013