Stephen M. Lee

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Education

University of Memphis: *Memphis, TN*

- **M.S. Computer Science** — 2018 – 2019 (Expected)
    - Scholarship: Graduate Assistant
- **M.A. Economics** — 2016 – 2018
    - Scholarship: Graduate Assistant
- **B.S. Physics and Mathematics** — 2013
    - Scholarship: Division-1 Men's Golf
    - Scholarship: Cecil C. Humphreys, Presidential

Experience

Graduate Assistant: *Computer Science, University of Memphis* — 2018 – 2019 (Expected)

- Teach several lab sections for the Intro to Computer Science course using the Java programming language.

Research Assistant: *Economics, University of Memphis* — 2016 – 2018

- Contributions include preparing and presenting lectures in the MBA economics course, building proprietary datasets with webscraping techniques, and using computational methods to solve and graph a complex N-dimensional model that explores optimal firm advertising cost and prices under limited consumer consideration sets.

Planner: *Fanatics Apparel* — 2015 – 2016

- Informed senior management by sending and maintaining daily sales reports.
- Managed a project to reorganize thousands of untracked garments on the production floor.

Professional Golfer — 2014 – 2015

- Competed weekly in event qualifiers for the PGA Tour and Web.com Tour, and in the European Tour's season ending qualifying events series.

Technical

Data Science: *Scraping, Cleaning, and Analysis*

- *Machine learning*........ Neural networks, decision trees, SVMs, and recommendation systems.
- *Econometrics*............... OLS and GLS, fixed and random effects, probit/logit, ARIMA, GARCH, and VAR modeling.
- *Statistics*........................ Granger causality, cointegrating vector analysis, and various hypothesis tests.
- *Cloud*.............................. Amazon Web Services (AWS) for cloud computation (EC2) and database work (RDS).
- *Python*........................... beautifulsoup, requests, selenium, statsmodels, scikit-learn, and pandas libraries.
- *Other Tools*................... eViews, STATA, R, Java, SQL, LaTex, Excel, GitHub.

Project

Research: *Cryptocurrency Analysis with Twitter Data*

- *Question*....................... Are cryptocurrency prices correlated? Do "tweets" impact the price?
- *Data*.............................. Trade level price and volume data from major European exchange. Twitter's "tweets".
- *Analysis*......................... Cointegrating vector analysis, Granger causality tests, and TGARCH modeling.
- *Tools*............................. Python; eViews; Amazon Web Service (AWS) EC2 and RDS instances; SQL; GitHub.