

## Eric Hagee

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<https://www.github.com/ejhagee> Website: <https://ejhagee.github.io/>

### Professional Summary

Data Analyst and Chemist with newly acquired skills and insatiable intellectual curiosity. Leveraging background in mathematics, applied statistics, and visualization, finding hidden gems within large sets of data, structured or raw. Seeking employment as a data scientist. Strong technical, communication, & teamwork skills. Available to relocate.

### Technical Skills

Languages: Python, Java, SQL (Intermediate), R, C, VBA (Basic) | Data Visualization and Manipulation: Pandas, Matplotlib, Numpy, Scipy, Tableau Public, D3.js, Plotly.js, Leaflet.js | Machine Learning: Scikit-Learn, Keras (Tensorflow) | Web: HTML, Javascript, Bootstrap | Databases: MySQL, SQLAlchemy | Microsoft Office: Excel, Word, Powerpoint | Other: Flask, Beautiful Soup, Git, Python API, command line

### Relevant Experience

University of Wisconsin-Madison Madison, WI 2011-2018

*Teaching Assistant and Research Assistant*

- Used Numpy and Matplotlib to visualize complex data sets from laser spectroscopy
- Applied scipy to simulate data to connect theory and experiment
- Facilitated the increase in student understanding of scientific results through visualization and basic statistical analysis using Microsoft Excel
- Participated in collaborative redesign of curriculum that instituted active learning and increased course complexity while maintaining student performance

### Projects

Keras Stock Predictor

- Built LSTM neural network using Tensorflow through Keras to predict close price of Dow Jones stocks that is reasonably accurate within one week
- Optimized model hyperparameters with aid of Matplotlib visualizations
- Compared model to other machine learning models developed with Scikit-Learn
- <https://github.com/sankmish/Keras-Stock-Predictor>

Air Travel Departures by U.S. Citizens

- Organized and cleaned public data about U.S. citizen airline travel and economic factors as a programmer in a team using Pandas
- Used Matplotlib to visualize data and compare effects of regional destination and economic trends on U.S. citizen overseas travel numbers.
- <https://github.com/ejhagee/Project-One>

New York Citibike

- Combined and cleaned 24 months of data from the largest bike-sharing program in the United States
- Visualized popular travel times and stations in Tableau Public with maps and traditional graphs
- <https://github.com/ejhagee/New-York-Citibike>

#### Part D RX ETL

- Extracted Medicare/Medicaid prescription csv data into Pandas dataframe; scraped web tables of Medicare Part D copayment ranges, as part of programmer team
- Transformed data to be loaded into a SQL database, including calculations of where different drugs lie on the yearly Medicare copayment ranges
- [https://github.com/kychien/Part\\_D\\_RX\\_ETL](https://github.com/kychien/Part_D_RX_ETL)

#### Belly-Button-Biodiversity

- Extracted a SQLite database containing information on microbes found in human bellybuttons with Python Flask
- Retrieved json outputs of Python Flask to build a selectable Web Dashboard with JavaScript .
- <https://github.com/ejhagee/Belly-Button-Biodiversity>

#### D3-Data-Journalism

- Graphed csv public health data using Javascript and D3.js that contained selectable axes with transitions upon selection
- Simulated a newsarticle with data analysis of visualizations
- <https://github.com/ejhagee/D3-Data-Journalism>

### **Education**

Rutgers, The State University of New Jersey

*Data Science Bootcamp Certificate*

An Intensive 24-week course that covers Python, SQL, Tableau, R, machine learning and more.

University of Wisconsin-Madison

*Master of Science (MS) Chemistry*

Completed coursework in data structures, machine learning, data science, & statistics.

GPA 3.95

Rutgers, The State University of New Jersey

*Bachelor of Arts (BA) Chemistry*

School of Arts and Sciences (SAS) Honors Scholar.

GPA 3.95