

Gregory Faletto

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Education

University of Southern California Marshall School of Business

Los Angeles, CA

PH.D. IN DATA SCIENCES AND OPERATIONS (STATISTICS TRACK)

Aug. 2018 -

- Advisor: Dr. Jacob Bien
- Currently conducting a literature review for a project related to feature selection in settings with highly correlated features.

Washington University in St. Louis

St. Louis, MO

B.A. IN PHYSICS

Aug. 2006 - Dec. 2009

- Graduated Phi Beta Kappa and with College Honors in Arts and Sciences. Dean's List every semester.
- Recipient of William George Eliot Scholarship and National Merit Scholarship.

Employment History (Summary)

ZipRecruiter

Santa Monica, CA

DATA ANALYTICS RESEARCH INTERN

Jul. 2017 - Present

- Developed an adaptive lasso-penalized logistic regression model to predict whether individual job seekers will apply to a given job listing in order to infer job seekers' preferences for monetary and fringe elements of compensation packages.
- Model includes interactions between job seeker features and compensation package features in order to understand how different kinds of job seekers value different forms of compensation.
- Chose research objective, data, observational study design, and modeling process. Downloaded data with SQL. Conceived desired outcome metric and constructed from raw data.
- Coded in R utilizing **glmnet** package (among others) to preprocess data and train models. Created visualizations and tables with **ggplot2**. Also used the **randomforest** and **caret** packages to create a more flexible (but less interpretable) random forest model to see if fit could be improved.
- Wrote a paper analyzing results, describing possible applications and next steps for project.
- Working mostly independently with only a handful of in-person and teleconference meetings with Alex Copulsky (ZipRecruiter) and Dr. Sanjog Misra (Booth School of Business, University of Chicago).

Self-Employed

St. Louis, MO & Los Angeles, CA

PRIVATE ACADEMIC TUTOR

Jan. 2009 - Present

- Tutor at the college and high school level for Calculus, Statistics, Physics, Chemistry, GRE, SAT/ACT. More info: <http://www.latutor.net/>.

Live Nation

Los Angeles, CA

MACHINE LEARNING INTERN

Feb. 2017 - May 2017

- Working remotely, independently created and implemented an algorithm in R utilizing JSON files from the setlist.fm API to predict future concert set lists of bands based on past set list data. Code and description: <https://github.com/gregfaletto/setlistpredictor>.

Personal Projects

Princeton University

FRAGILE FAMILIES CHALLENGE

Jun. 2017 - Aug. 2017

- Cleaned data and created principal components regression and lasso-penalized linear regression models to predict three different outcome variables in a training set with only 2,121 observations, nearly 13,000 covariates, and a great deal of missing data.
- All three of my models finished in the top 40% of entries and outperformed a baseline null model.
- Code and description: <https://github.com/gregfaletto/fragilefamilies>.

Skills

- **Languages:** R (proficient), SQL (proficient), Matlab (intermediate), Python (some experience), Java (some experience).
- **Other software:** Google Sheets (proficient), \LaTeX (proficient), Excel (intermediate), Stata (some experience), Tableau (some experience), SPSS (some experience), Minitabs (some experience).