Gregory **Faletto**

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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 features related to compensation package, controls, and interactions between controls and compensation package features in order to understand how different kinds of job seekers value different forms of compensation and the causal effect of changes to compensation packages.
- Chose research objective, data, observational study design, and modeling process. Downloaded data with SQL. Conceived desired outcome metric and constructed from raw data.
- Wrote R code utilizing `glmnet` package (among others) to preprocess data and train models. Created visualizations and tables with `ggplot2` and `stargazer` packages. 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 in LaTeX.
- Currently working on refining model, with goal of implementation of model by ZipRecruiter and publication in an academic journal.
- 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 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).

Education

Unspecified University

PH.D. IN STATISTICS — *Aug. 2018 -*

- So far admitted to UNC (USNWR #12) and NC State (#15) and have scheduled an informal in-person interview at USC Marshall.

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.