DANIEL P. MARTIN

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PROFESSIONAL AND RESEARCH EXPERIENCE

Fellow July 2015 – Present
Insight Health Data Science, Boston, MA

- Created Food Findr, an interactive web application to help users identify healthy, local dining options in Boston
- Used BeautifulSoup and regular expressions in Python to scrape menu items and create a bag of words
- Built a random forest classifier in R, achieving an AUC of 0.87 with further validation using local health blogs
- Deployed an interactive map and table as the front end using Shiny and AWS (available at www.food-findr.com)

Statistical Consultant May 2013 – July 2015
University of Virginia, Charlottesville, VA
Program for Anxiety, Cognition, and Treatment Lab

- Provided ongoing statistical support to 10 substantive researchers for various projects and two grant proposals
- Consulted on linear, mixed-effects, and structural equation models that have been published in top journals
- Wrote a portion of the analytic plan for a grant proposal funded by the National Institute of Mental Health

Graduate Research Assistant
University of Virginia, Charlottesville, VA
Implicit Social Cognition Lab - Department of Psychology January 2013 – July 2015

- Coordinated the efforts of 29 teams and 61 researchers on a project investigating subjectivity in analysis decisions commonly found in academic research; used meta-analysis to aggregate results
- Created an R package to clean and visualize Implicit Association Test data, downloaded over 5200 times

Social Development Lab - Curry School of Education May 2012 – July 2015

- Used mixed-effects models, factor analyses, and missing data analyses to investigate the relationship between student self-efficacy, positive teacher-student interactions, and student engagement in math
- Presented initial findings at a local conference and reported to the school district where data collection occurred

Mathematical Psychology Lab - Department of Psychology August 2011 – July 2015

- Dissertation evaluated the performance of recursive partitioning methods for multilevel data structures commonly found in education research; created an R package to help facilitate the analysis for applied researchers
- Used R and Monte Carlo simulations to evaluate the performance of cluster analyses in longitudinal contexts

Part-Time Developer & Methodological Consultant
Center for Open Science, Charlottesville, VA May 2014 – August 2014

- Created an interactive network visualization of Open Science Framework users with Python, R, and sigma.js
- Provided methodological consulting on calculating effect sizes for various crowdsourced replication projects

EDUCATION

Ph.D. Quantitative Psychology August 2015
University of Virginia, Charlottesville, VA

B.S. Applied Mathematics May 2011
B.A. Psychology
University of Rhode Island, Kingston, RI

TECHNICAL SKILLS

- **Languages**: R, Python, *familiar with:* SQL, SPSS, Javascript, *exposure to:* SAS, STATA
- **Tools**: git, shiny, dplyr, ggplot2, pandas, AWS, LaTeX
- **Statistics**: generalized linear and mixed-effects models, random forests, cluster analysis, Monte Carlo simulations