DANIEL P. MARTIN

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PROFESSIONAL AND RESEARCH EXPERIENCE

Data Scientist September 2015 – Present
McKinsey & Company Organizational Solutions, Waltham, MA

- Create practical solutions to complex client problems spanning the whole cycle of talent development, including retention, workforce planning, and performance
- Build robust modeling pipelines in R for supervised (regularized regression, boosting, random forests) and unsupervised learning (k-means, PAM), cutting down analysis time in similar projects from days to hours
- Interview, evaluate, and onboard new data scientists (full-time and interns) as part of the People Analytics team

Fellow/Alumni Mentor 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
- Scraped menu items and created a bag of words using BeautifulSoup and regular expressions in Python
- 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
- Mentor current fellows by participating in panels and giving project feedback and mock interview sessions

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

- Provided 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 8000 times

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

- Examined the use 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
- Evaluated the performance of cluster analyses in longitudinal contexts using R and Monte Carlo simulations

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, *exposure to:* SAS, STATA
- **Tools**: git, dplyr, ggplot2, shiny, pandas, Tableau
- **Statistics**: generalized linear and mixed-effects models, random forests, cluster analysis, Monte Carlo simulations