Robert J. Gambrel

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PROFESSIONAL DATA SCIENCE EXPERIENCE

Health Policy Data Analyst, Vanderbilt University Medical Center   March 2015–Present
Analyzed cost trends and treatment patterns in Medicare claims data, using SAS EG
Developed a novel grouper algorithm to aggregate expenses from a variety of data sources
Performed merging and cleaning of both in-memory data and SQL databases, using R
Developed programs to impute missing data and correct data entry errors based on fuzzy string matching
Automated routine office tasks and data downloading with custom Python programs
Prepared graphs and tables for publication

Research Assistant, University of Minnesota   July 2013-December 2014
Cleaned survey data for analysis using multiple data sets
Conducted multivariate, multilevel analyses and prepared for publication
Assisted in developing a forecast model for international conflict using Bayesian time-series methods

SOFTWARE EXPERTISE

Languages and Select Packages
- R: dplyr, ggplot2, tidyr
- SAS: macro writing, SQL, SAS Enterprise Guide
- Python: pandas, numpy, government database apis
- LaTeX: report preparation, Beamer
- Git: introduced version control for internal projects
- Stata: statistical modeling, margins, table preparation

EDUCATION

Master of Arts, Political Science   2014
University of Minnesota, Minneapolis, MN
Subfields: Comparative Politics, International Relations, Quantitative Methods
Supporting Program: Applied Economics
Methods training: linear models, maximum-likelihood models, time series, Bayesian statistics

Bachelor of Arts, Public Policy and Spanish   2008
Vanderbilt University, Nashville, TN
Summa Cum Laude, Phi Beta Kappa

OTHER EXPERIENCE

Comparative Political Studies, Editorial Assistant   September 2013–May 2015
Editors: David Samuels, Ben Ansell
Managed intake and peer review process
Coordinated production process with submitting authors
Prepared annual reports of journal impact and submission trends

Tennessee Justice Center, Client Advocate/Paralegal   2008–2011
Maintained a caseload of 20-30 individual clients seeking Medicaid services
Performed document review and analysis for broader advocacy
Prepared internal reports on Tennessee's performance in achieving healthcare objectives