

Robert J. Gambrel

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PROFESSIONAL DATA SCIENCE EXPERIENCE

Health Policy Data Analyst, Vanderbilt University School of Medicine March 2015-Present

Served as lead data analyst on multiple concurrent projects analyzing Medicare claims
Analyzed cost trends and treatment patterns in Medicare claims data, using SAS and SQL
Developed a novel grouper algorithm to aggregate post-acute expenses from a variety of claims data sources
Performed merging and cleaning of both in-memory data and SQL databases
Developed R 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
Implemented version control with Git
Prepared graphs and tables for publication

Research Assistant, University of Minnesota July 2013-May 2015

Cleaned and prepared survey data for analysis
Tested for missing data and imputed values where appropriate
Conducted multivariate, multilevel analyses and prepared results for publication
Assisted in testing development of conflict forecast models

SOFTWARE EXPERTISE

Languages and Select Packages

- R: dplyr, ggplot2, tidyr, function and package writing
- SAS: macro writing, SQL, SAS Enterprise Guide
- Python: pandas, numpy, government database APIs
- L^AT_EX: report preparation, Beamer
- Git: introduced version control for internal projects, GitHub
- Stata: statistical modeling, margins, table preparation
- Microsoft Office: Excel, PowerPoint, Word

EDUCATION

Master of Arts, Political Science 2014

University of Minnesota, Minneapolis, MN
Subfields: Political Economy, Quantitative Analysis
Supporting Program: Applied Economics

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

Managed intake and peer review process
Assisted authors with document preparation during the production process
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 advice concerning Medicaid services
Prepared internal reports on Tennessee's performance in achieving healthcare objectives