

# Robert J. Gambrel

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## PROFESSIONAL DATA SCIENCE EXPERIENCE

**Data Scientist**, Intermedix November 2017-Present  
**Data Specialist**, Intermedix December 2016-November 2017  
Used SQL to prepare raw electronic health records for machine learning models  
Used R and Python machine learning libraries to identify miscoded records  
Used machine learning approaches to predict denied claims before submission  
Prepared client-facing reports on findings using Tableau and R Shiny  
Used public CMS data and clustering to identify hospitals' nationwide peers for benchmarking  
Publicized business capabilities with blog posts and research papers  
Automated data flows using Python and software API's

**Health Policy Data Analyst**, Vanderbilt University School of Medicine March 2015-December 2016  
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  
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

## SOFTWARE EXPERTISE

### Languages and Select Packages

- R: dplyr, ggplot2, tidyr, Shiny, function and package writing
- Python: pandas, numpy, government database APIs, web scraping
- L<sup>A</sup>T<sub>E</sub>X: report preparation, Beamer
- Git: introduced version control for internal projects, GitHub
- Tableau
- Microsoft Office: Excel, PowerPoint, Word

## EDUCATION

**Master of Science**, Analytics expected 2020  
Georgia Institute of Technology, Atlanta, GA

**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