

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^AT_EX: 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