

KIMBERLY M. KREISS

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EDUCATION

Rutgers University-New Brunswick

May 2017

B.A. in Economics, *Cum Laude*

New Brunswick, NJ

Minors in Mathematics and English

Senior Honors Thesis: “An Investigation of Uber Entry on Arrest Rates”

EXPERIENCE

Federal Reserve Board of Governors

October 2017 - Present

Senior Research Assistant, Division of Consumer and Community Affairs

Washington, DC

- Lead data analyst to study the geospatial patterns of U.S. mortgage lending using Tableau and R. Manage code and production processes using internal GitLab repository
- Develop and maintain R and Stata programs to clean and analyze data for the annual Survey of Household Economics and Decisionmaking (SHED)
- Wrote new R programs to automate the creation of 31 tables and 36 charts for the annual report
- Work with team to migrate existing SHED production work to internal git repositories for version control, better code management, and improved file structure
- Use text mining, natural language processing and machine learning techniques to analyze over 10,000 open-ended responses. Specific techniques include part-of-speech tagging, bigram network analysis, random forest and LASSO regression
- Examine and monitor economic conditions in low-and-moderate income communities using various public and private data sources
- Wrote R code to work with the SLURM cluster to produce timely analysis on large datasets (over 70GB)

TECHNICAL STRENGTHS

Software & Tools

R, Stata, SAS, Tableau, SQL, Git

Programming Languages

Python, Java

Markup

LaTeX, Markdown

PRESENTATIONS AND RESEARCH

Presentations

“An Analysis of Open-ended Responses in the Survey of Household Economics and Decisionmaking.” Presentation, Data Showcase, December 2018.

Works in Progress

“Going the Distance: How Banks are Serving New Communities”

“What Does it Mean to be Doing Well Financially?” (with Mike Zabek)

Troland, E., Roth Tran, B. “Economic Vulnerability in Rural America:

Consumer Credit and the Coal Boom-Bust in the 2000s” (research assistance)

PROFESSIONAL SERVICE

Federal Reserve Board of Governors and Howard University

Janaury 2018 - Present

Course Assistant, Data Analysis with R

Washington, DC

- Serve as a lead for recruitment and training. My responsibilities include recruiting new staff volunteers to assist with coordinating the class. I led a team of volunteers to create content for staff trainings including teaching assistant trainings and trainings for GitLab.
- Prepare and give lectures, grade homework, and respond to feedback from students
- Attend office hours weekly to assist students with programming issues and questions

PROFESSIONAL DEVELOPMENT AND TRAINING

George Washington University, Machine Learning I (data science master's program)

The Data Incubator, Introduction to Machine Learning (python)

District Data Labs, Introduction to Python, Data Wrangling and Analysis, Natural Language Processing

Learning Tree International, Advanced Programming in R

The Carpentries, Software Carpentry with R

PSS Summer School, Immersion in R (3 week internal course)

General Assembly, Natural Language Processing Workshop (python)

RELEVANT COURSEWORK

Machine Learning I

Big Data and Economic Forecasting

Advanced Cross-Sectional and Panel Econometrics

Economics of Crime

Honors Research Seminar I & II

Theory of Probability

Theory of Statistics

Real Analysis

Differential Equations

Linear Algebra

HONORS & AWARDS

Phi Beta Kappa

Omicron Delta Epsilon (Economics Honors Society)

Paul Robeson Scholar

Departmental High Honors in Economics