KIMBERLY M. KREISS

kimberlykreiss.github.io

(202) · 596 · 8684 ⋄ kimberlymkreiss@gmail.com

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 R and Tableau. Manage code, production processes, and documentation with other analysts using internal GitLab repository and assist with onboarding new project members
- Combine geographic, economic, and mortgage data to create interactive Tableau dashboards to visualize mortgage lending patterns in relation to branch locations
- Experience working with a wide variety of datasets including data from Census, HMDA, BLS, and FDIC
- Visualize and report findings through memos, internal reports, and presentations. Experience presenting results to both technical and non-technical audiences and Board leadership
- Use text mining, natural language processing and machine learning techniques in R and python to extract information from unstructured text data of over 10,000 open-ended responses. Specific techniques include part-of-speech tagging, bigram network analysis, sentiment analysis, random forest and LASSO regression
- 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 using tools such as ggplot2 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

HONORS & AWARDS

Phi Beta Kappa

Omicron Delta Epsilon (Economics Honors Society)

Paul Robeson Scholar

Departmental High Honors in Economics

TECHNICAL SKILLS

Software & Tools	R, Stata, Git, SQL, SAS
Programming Languages	Python, Java
Markup	LaTex, MarkDown

PRESENTATIONS AND RESEARCH

Presentations "SHED-ing Light on Survey Data: Using R to Automate Production Processes in the Survey of Household Economics and Decisionmaking." Presentation, DC R Conference. November 2019.

"Asking Consumers about their Finances." Presentation, Government Advances in Statistical Programming, BLS. September 2019.

"An Analysis of Open-ended Responses in the Survey of Household Economics and Decisionmaking." Presentation, Data Showcase, FRB. 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 AND MEMBERSHIPS

Federal Reserve Board of Governors and Howard University   January 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 AFFILIATIONS

Member, American Statistical Association   April 2019 - Present

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)
The Urban Institute, Data Visualization Workshop

RELEVANT COURSEWORK

Machine Learning I	Theory of Probability
Big Data and Economic Forecasting	Theory of Statistics
Advanced Cross-Sectional and Panel Econometrics	Real Analysis
Introduction to Computer Science	Differential Equations
Honors Research Seminar I & II	Linear Algebra