

# KIMBERLY M. KREISS

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## EDUCATION

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**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

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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
- 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
- Wrote R code to work with the SLURM cluster to produce timely analysis on a large dataset (over 70GB) of credit reporting data

## HONORS & AWARDS

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Phi Beta Kappa

Omicron Delta Epsilon (Economics Honors Society)

Paul Robeson Scholar

Departmental High Honors in Economics

## TECHNICAL STRENGTHS

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**Software & Tools**

R, Stata, Git, SQL, SAS

**Programming Languages**

Python, Java

**Markup**

LaTeX, Markdown

## PRESENTATIONS AND RESEARCH

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### 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

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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 DEVELOPMENT AND TRAINING

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**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

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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