Brandon Kramer, Ph.D.

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EDUCATION

Ph.D., Sociology
Rutgers University, 2019

M.A., Sociology
Rutgers University, 2014

B.A., Sociology
University of Iowa, 2010

TECHNICAL SKILLS

Coding Languages
R, Python, SQL, Stata, SPSS

Key Packages
tidyverse, igraph, Sci-kit learn, gensim, NLTK, networkX

Other Software Tools
Git/Hub, Qualtrics, Shiny, Gephi, RShiny, RMarkdown, Jupyter, Hugo, LaTeX, Microsoft Suite

SUMMARY

Brandon Kramer (he/him/his) is a quantitative social scientist with a background researching innovation, ethics, and inequity in science and tech. Brandon is seeking a position as a data scientist or UX researcher in an organization that cultivates equitable social and technical systems. He has experience using an array of computational, quantitative, and qualitative methods; managing projects in collaborative team environments; and conveying technical findings to stakeholders across various economic sectors.

WORK EXPERIENCE

University of Virginia | Biocomplexity Institute
Postdoctoral Research Associate | Arlington, VA | 2019-Present

- Partnered with university, non-profit, and government stakeholders to develop, execute, and disseminate research projects on social, economic, policy, and health-related issues
- Developed data analysis pipelines in R and Python to predict changes in local housing markets, identify pathways to economic mobility, and evaluate international trends in software development
- Created reports, presentations, dashboards, websites, and online interactive visualizations using Rmarkdown, RShiny, LaTex, PowerPoint, and Gephi to tell compelling data-driven stories to non-technical audiences
- Managed multiple research teams that integrated machine learning, natural language processing, and social network analysis into public dashboards evaluating software use for federal government agency
- Played key role in design and implementation of $4.8M NSF-funded grant evaluating climate risks in Eastern Virginia
- Collected, cleaned, and managed unstructured social media data to PostgreSQL database using web scraping and application programming interface (API) tools in R and Python
- Leveraged natural language processing strategies, including supervised text mining, topic modeling, and word embedding algorithms like word2vec and BERT, to draw insights from unstructured text data
- Authored two software packages in R (named tidyorgs and diverstidy) that improved the detection and classification of organizational, geographic, and population-based entities in large-scale text datasets

RESEARCH SKILLS

Research/study design
Survey design/dissemination
Data visualization
Presentation/public speaking
Project management
Parametric statistics
OLS/Logistic regression
Predictive analytics
Experimental methods
Social network analysis
Natural language processing
Geospatial methods
Web scraping/APIs
Probabilistic record linkage
Relational database
management
Package development

AWARDS

David Mechanic Scholar Award
Rutgers University
University Institute of Health
2019 | $4,000

Student Development Award
Rutgers University
Department of Sociology
2018 | $1,055

Excellence Research Fellowship
Rutgers University
University Institute of Health
2015 | $24,000

Matilda Riley Best Paper Award
Rutgers University
Department of Sociology
2013 | $350

**Five-Time US National
Go-Kart Racing Champion**
1999, 2001, 2002

Rutgers University | Department of Sociology
Graduate Research Assistant | New Brunswick, NJ | 2012-2019
- Conceptualized and executed research projects using content analysis, computational text analysis and network analysis to examine innovation and ethics in the health sciences
- Managed research laboratory where my responsibilities included hiring, supervising, and mentoring 25 students on how to recruit participants, run experiments, collect and store biological specimens, and clean messy data
- Published four manuscripts studying the impact of social inequities and research ethics on health outcomes
- Recipient of multiple fellowships, awards, and $30,000+ in funding for writing and research excellence
- Nominated to Teaching Honor Roll in both semesters as an instructor for Sociology of Health & Medicine courses

Rutgers University | School of Communication & Information
Graduate Research Assistant | New Brunswick, NJ | 2017-2019
- Collaborated with two teams conducting research on health-related projects using experimental, survey, and computational methods
- Performed descriptive and multivariate regressions in SPSS and R
- Programmed and disseminated Qualtrics surveys to 400+ participants as part of a multi-cohort longitudinal study testing a behavioral intervention

Barnard College | Women, Gender & Sexuality Studies
Graduate Research Assistant | New York, NY | 2015-2016

- Conducted content and discursive analysis for an NSF-funded book project on racial and gender bias in scientific research on hormones
- Interviewed medical and behavioral experts to learn about how they conceptualize hormones impacting diverse groups in different ways

PROJECTS

Kramer, B. & Lee, C. "The Rise of Diversity and Population Terminology in Biomedical Research." Website: https://riseofdiversity.netlify.app.

Kramer, B. 2020. "The Molecularization of Race in Testosterone Research." *BioSocieties.* Paper available at: https://bit.ly/3pgA0Ut.

Kramer, B., Korkmaz, G., Santiago Calderón, J.B., & Robbins, C. "International Collaboration in Open Source Software: Longitudinal Network Analysis of GitHub."

Moradi-Jamei, B. Kramer, B., Santiago Calderón, J.B., & Korkmaz, G. "Community Formation and the Detection of GitHub Collaboration Networks." 2021. *Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining.* Paper available at: https://arxiv.org/abs/2109.11587.