

JARED JOSEPH, Ph.D.

Last updated: April 25, 2024

www.JNJoseph.com

IRS Criminal Investigation
1301 Clay Street
Oakland, CA 94612

PROFILE

I am a sociologist that studies abuses of power in government. I combine computational methods such as social network analysis, natural language processing, geospatial analysis, and machine learning with open source and governmental data to uncover patterns of misfeasance and malfeasance by our public servants. From the political networks of politicians and prohibition gangsters to bias hidden in the text of academic recruitment, I use new methods to work on old problems of corruption and inequality.

EDUCATION

2022	University of California, Davis Doctor of Philosophy in Sociology Designated Emphasis in Computational Social Science
2018	Master of the Arts in Sociology
2016	Valparaiso University Bachelor of Arts in Psychology with Honors and Japanese Summa Cum Laude
2015	Kansai Gaidai (関西外国語大学) Asian Studies Program

PROFESSIONAL SKILLS

Research Methods

- Quantitative Analysis
- Social Network Analysis (SNA)
- Natural Language Processing (NLP)
- Geographic Information Systems (GIS)
- Machine Learning

Software Competencies

- R & R Studio
- Python
- Git & Github
- SQL
- Zotero

Subject Expertise

- Elite Crime
- Civic Data
- Public Corruption
- Organized Crime
- Criminal Networks

Interpersonal Abilities

- Project management
- Team organization
- Written communication
- Digital content generation
- English & Japanese language



APPOINTMENTS

- Aug 2023-Present **Data Scientist (Presidential Management Fellow)**
IRS Criminal Investigation: Applied Analytics
- Sep 2022-Jul 2023 **Visiting Assistant Professor**
Smith College Statistical & Data Sciences

RESEARCH

Peer-Reviewed Publications

- Nov 2023 **Joseph, Jared** & McCarthy, Bill (2023). [California Civil Asset Forfeiture and the Policing of Minority Residents](#). *Law & Social Inquiry*, 48(4), 1138-1156. doi:10.1017/lis.2022.84
- Nov 2021 **Joseph, Jared** & Smith, Chris (2021). [The Ties that Bribe: Corruption's Embeddedness in Chicago Organized Crime](#). *Criminology*. 2021; 59: 671– 703. <https://doi.org/10.1111/1745-9125.12287>

Manuscripts In Progress

- Joseph, Jared** & Poirier, Lindsay. Civic Data for Service Learning: Lessons Learned from a Community Focused Data Lab. In Progress.
- Joseph, Jared**. Police Policy, Public Problems: The Effect of Departmental Asset Forfeiture Policy on Police Seizures. In progress.
- Joseph, Jared**. Dirty Money and Broken Homes: Local Corruption in Philadelphia. In progress.

Code

- Aug 2021 [Metacomb](#)
A package for tracking data flows in R projects.
- May 2021 [Nattswap](#)
A package for attribute swapping network simulations.
- May 2021 [Carceral-Ecology OSHA Data Extraction and Cleaning Tool](#)
A codebase to extract Occupational Safety and Health Administration (OSHA) data.

EXPERIENCE

Research Positions

- Sep 2020-Sep 2021 Graduate Student Researcher
UC Davis DataLab
- Jun 2020-Aug 2020 Civic Digital Fellow
Internal Revenue Service
- Jun 2019-Aug 2019 Data Science for Social Good Fellow
The Alan Turing Institute & The University of Warwick



- Apr 2017-Mar 2019 Graduate Student Researcher
UC Davis Evaluating Equity in Faculty Recruitment
- Sep 2018 Graduate Student Researcher
UC Davis DataLab
- Jun 2017-Jun 2018 Statistical Consultant
UC Davis Law
- May 2014-Aug 2014 Rare Archives Assistant
Valparaiso University Library

Teaching

- Jan 2023-May 2023 [Advanced Programming for Data Science](#)
Smith College
- Jan 2023-May 2023 Reproducible Scientific Computing with Data - Lab
Smith College
- Sep 2022-Dec 2022 [Introduction to Data Science](#)
Smith College
- Sep 2022-Dec 2022 Truth, Myth, and Paradox (Lies and Data)
Smith College
- Jan 2020-Apr 2020 Teaching Assistant – Introduction to Social Research (Analysis)
UC Davis Sociology
- Sep 2019-Dec 2019 Teaching Assistant – Criminology
UC Davis Sociology
- Apr 2019-Jun 2019 Teaching Assistant – Responses for Social Policy
UC Davis Sociology
- Jan 2017-Apr 2017 Teaching Assistant – Juvenile Delinquency
UC Davis Sociology
- Sep 2016-Dec 2016 Teaching Assistant – Social Problems
UC Davis Sociology

Mentoring

- Jan 2023-May 2023 [DSC-WAV](#) Team Project Mentor
Smith College
NSF Grant Numbers HDR DSC 1924017, 1923388, 1923700, 1923934, and 1924032
- Jan 2023-May 2023 Statistics & Data Science Senior Capstone Mentor
Smith College
- Jan 2020 HackDavis Volunteer Mentor
HackDavis
- Jan 2019-Jan 2020 Computational Methods Tutor
UC Davis DataLab
- Aug 2015-May 2016 Japanese Language Partner
Valparaiso University Language Resource Center



Professional Conferences

- Nov 2021 To Protect and Seize: A Decade of Asset Forfeiture in California.
American Society of Criminology 2021
- May 2021 'Who are the Criminals?' Two Decades of Profit Through California
Asset Forfeiture
*Suites, Streets, and States: A Conference and Symposium
Celebrating the Research of John L. Hagan (With Bill McCarthy)*
- Mar 2021 The Ideal Gig-worker: Rideshare Drivers' Stories for CA Prop 22
*UC Davis Sociology Research & Development Conference (With
Savannah Hunter)*
- Nov 2020 Triaging Tips: A System for Machine Learning in Government
MITRE Analytical Challenges in Modern Tax Administration
- Mar 2020 The Ideal Gig-Worker: An Analysis of Rideshare Drivers' Supportive
Stories for CA Prop 22
Pacific Sociological Association (With Savannah Hunter)
- Nov 2019 Stolen Power on Borrowed Time: The Corruption of State Resources
for Private Gain
American Society of Criminology
- Nov 2018 Capital in Chicago Organized Crime
American Society of Criminology
- Nov 2017 The Declining Significance of Law Enforcement in Chicago
Organized Crime Networks, 1900-1933
Social Science History Association (With Chris Smith)
- May 2016 Social Honesty and Culture: White Lies and Social Face
Midwestern Psychological Association Conference

Invited Talks

- Mar 2023 Studying Secrets: Challenges of Social Data Science
Invited talk for Brown University (Data Science Initiative)
- Mar 2022 Applications of the *nattswap* package
Invited talk (Remote) for Georgia State University
- Mar 2021 Intro to Social Networks Lecture
UC Davis DataLab
- Jan 2020 Introduction to R
UC Davis Sociology
- Dec 2019 Police Use of Data and Technology
UC Davis Sociology
- Nov 2019 Introduction to Citation Managers
UC Davis Sociology



- Jul 2019 Machine Learning Summer School: AI for Good
University College London
- Mar 2018 Social Network Analysis in R Using Statnet
UC Davis DataLab

AWARDS

Grants

- 2021 Doctoral Dissertation Research Improvement Grant
American Sociological Association (National Science Foundation)
- 2019 Research Grant
UC Davis Sociology
- 2018 Research Grant
UC Davis Sociology
- 2018 Santa Fe Institute Workshop Small Grant
Santa Fe Institute
- 2018 Dean's Small Grant
UC Davis Letters & Sciences
- 2018 Travel Grant
UC Davis Graduate Student Association

Awards

- 2020 Leon Mayhew Prize – Honorable Mention
UC Davis Sociology
- 2019 Graduate Student Paper Award – 2nd place
Alpha Kappa Delta
- 2016 College of Arts and Sciences Lumina Award
Valparaiso University

Scholarships

- 2014-2015 Benjamin A. Gilman International Scholarship
U.S. Department of State
- 2014-2015 US-Japan Bridging Scholarship
American Association of Teachers of Japanese

INVOLVEMENT

Service

- 2019-2021 Hack 4 California Lead Lab Organizer
UC Davis DataLab
- 2018-2020 DataLab Office Hours Volunteer
UC Davis DataLab
- 2018-2019 Computer Liaison



	<i>UC Davis Sociology</i>
2017-2018	Graduate Student Ombudsman <i>UC Davis Sociology</i>
2016-2018	Chancellor's Graduate and Professional Student Advisory Board <i>UC Davis</i>

Professional Societies

American Sociological Association

American Society of Criminology

American Statistical Association

TRAINING AND CERTIFICATIONS

Feb 2024	Introduction to Neural Networks <i>Skillsoft</i>
Feb 2024	Leadership Development Program - Year 1 <i>Presidential Management Fellowship</i>
Feb 2024	Using Large Language Transformer Models for Research in R <i>Statistical Horizons</i>
Sep 2018	Software Carpentry Certified Instructor <i>Software Carpentry</i>
Jun 2018	Graduate Workshop in Computational Social Science <i>Santa Fe Institute</i>
2016-2017	Chancellor's Leadership Development Seminar Series <i>UC Davis Office of Graduate Studies</i>
Dec 2016	Foundations in Teaching Certification <i>UC Davis Center for Educational Effectiveness</i>
Jun 2014-Aug 2014	Certified Emergency Medical Technician <i>Indiana Department of Homeland Security</i>

