Joshua Gary Mausolf

Address: 1126 East 59th Street, 305
Chicago, IL 60637
Phone: +1 231-667-7017
email: jmausolf@uchicago.edu
website: jmausolf.github.io

Education

2020 expected	Ph.D.	University of Chicago, Department of Sociology

◇ *Thesis*: "Enter the Partisan Firm: The Role of Affective Polarization on Organizational Behavior, Workplace, and Career"

◇ *Methods*: A computational social science thesis applying databases, statistical learning, HCA, NLP, networks, and experiments.

◇ *Special Field Exams*: (1) Inequality in Labor Markets, Wealth, and Social Mobility, (2) Survey Research Methods

2016	A.M.	University of Chicago, Department of Sociology

Preliminary Exams: Stratification and Inequality, Political Sociology, Economic Sociology, Urban and Race, Sex and Gender, Family

2012	B.A.	New York University, Department of Sociology

Major: Sociology with High Honors, *summa cum laude*

2010	A.A.	Northern Virginia Community College

Major: Liberal Arts, *summa cum laude*

Peer Reviewed Publications

2019 — Baćak, Valerio, Joshua Gary Mausolf, Christiane Schwarz. "How Comprehensive Are Media-Based Data on Police Officer-Involved Shootings?" Journal of Interpersonal Violence (Forthcoming).

2017 — Mausolf, Joshua Gary. "Occupy the Government: Analyzing Presidential and Congressional Discursive Response to Movement Repression." Social Science Research 67:91-114.

Current Manuscripts in Preparation or Under Review

Mausolf, Joshua Gary. "Corporate Politics: The Emergence of Partisan Polarization in Firms, 1980-2018." (In Preparation)

Mausolf, Joshua Gary. "Office Politics: How Party Identity and Affective Polarization Alter Job Callbacks" (In Preparation)

Mausolf, Joshua Gary. "Party in the Boardroom: Affective Polarization and Corporate Board Succession." (In Preparation)

Professional Experience

2015-Current	**University of Chicago**, Chicago, IL
	⬦ Senior Preceptor, Masters Computational Social Science, 2019-Current
	⬦ Preceptor, Masters Computational Social Science, 2017-2019
	⬦ Research Assistant, Xi Song, *Dept. of Sociology*, 2016-2017
	⬦ Research Assistant, Kathleen Cagney, *Dept. of Sociology*, 2016-2017
	⬦ Research Assistant, Jenny Trinitapoli, *Dept. of Sociology*, 2016
	⬦ Jr. Data Scientist, James Evans *Knowledge Lab, Computation Inst.*, 2015
2018 and 2019	**Facebook**, Menlo Park, CA and Seattle, WA
	⬦ Quantitative UX Research Intern, Summer 2019
	⬦ Quantitative UX Research Intern, Summer 2018
Jan-Mar 2018	**Rutgers University**, Newark, NJ
	⬦ Data Analyst and Programmer, *School of Criminal Justice*
Jun-Aug 2016	**Data Science for the Social Good**, Chicago, IL
	⬦ Data Science Fellow, Predicting Adverse Police Incidents, *White House Police Data Initiative*
2012-2014	**New York University**, New York, NY
	⬦ Research Assistant, Jeff Manza, *Dept. of Sociology*
	⬦ Research Assistant, Patrick Sharkey, *Dept. of Sociology*

Invited Talks

2017	Mausolf, Joshua Gary. "Occupy the Government: Analyzing Presidential and Congressional Discursive Response to Movement Repression." Presented at Crossing Disciplinary Boundaries, September, Chicago.

Conference Presentations

2019	Mausolf, Joshua Gary. "Corporate Politics: The Emergence of Partisan Polarization in Firms, 1980-2018." Presented at the Annual Meeting of the American Sociological Association, *Organizations* regular session, August, New York.
2019	Mausolf, Joshua Gary. "Corporate Politics: The Emergence of Partisan Polarization in Firms, 1980-2018." Presented at the Chicago Area Comparative Historical Social Sciences Workshop, Northwestern University, May, Evanston.

2018	Mausolf, Joshua Gary. "Corporate Politics: The Rise of Partisan Polarization in Firms, 1984-2016." Presented at the 4TH ANNUAL INTERNATIONAL CONFERENCE ON COMPUTATIONAL SOCIAL SCIENCE, at the Kellogg School of Management, Northwestern University, July, Evanston.
2017	Mausolf, Joshua Gary. "Occupy the Government: Analyzing Presidential and Congressional Response to Movement Repression." Presented at the ANNUAL MEETING OF THE AMERICAN SOCIOLOGICAL ASSOCIATION, *Political Sociology* regular session, August, Montreal.
	Mausolf, Joshua G. "Occupy the Government: Analyzing Presidential and Congressional Response to Disruptive Protest." Presented at the ANNUAL MEETING OF THE POPULATION ASSOCIATION OF AMERICA, *Computational Approaches to Dynamic Social Processes* session, April, Chicago.
	Mausolf, Joshua G. "The Effect of University Prestige on College Sexual Activity." Presented at the ANNUAL MEETING OF THE POPULATION ASSOCIATION OF AMERICA, *Sexual Identity, Behavior, and Health* session, April, Chicago.
2016	Joshi, Sumedh, Jonathan Keane, JOSHUA MAUSOLF, Lin Taylor, Joe Walsh, Jen Helsby, and Allison Weil. "Predicting Adverse Police Incidents." Presented at the 4TH ANNUAL DATA SCIENCE FOR SOCIAL GOOD CONFERENCE, August 24, Chicago.
	Mausolf, Joshua G. "Occupy the Government: Presidential and Congressional Rhetorical Response to the Occupy Movement." Presented at the 2ND ANNUAL INTERNATIONAL CONFERENCE ON COMPUTATIONAL SOCIAL SCIENCE, *Collective Action* session, at the Kellogg School of Management, Northwestern University, June 25, Evanston.
2015	Mausolf, Joshua G. "Sexual Privilege: The Effect of Private and Elite Campuses on the College Hookup Scene." Presented at the ANNUAL MEETING OF THE AMERICAN SOCIOLOGICAL ASSOCIATION *Hookup Culture*, roundtable, August 22, Chicago
	Mausolf, Joshua G. "Sexual Privilege: The Effect of Private and Elite Campuses on the College Hookup Scene." Presented at the ENGENDERING CHANGE CONFERENCE at the University of Chicago, April 11, Chicago

RESEARCH EXPERIENCE

JUN-SEP 2018	**FACEBOOK**, Menlo Park, CA

Quantitative UX Research Intern, *Internet and Community Growth*
◇ Developed ETL pipelines with **Python** and **PrestoSQL**.
◇ Engineered probabilistic questionnaire and post-stratification weights.
◇ Provided statistical modeling in **R** and **Stata**, delivering actionable, competitive insights to my team.

JAN-MAR 2018	**RUTGERS UNIVERSITY**, Newark, NJ

Data Analyst and Programmer, *School of Criminal Justice*
◇ Programmed an open-source reproducible **Python** and **R** code to download, clean, merge, and analyze crowd-source and local government data on Officer Involved Shootings.

2015-2017	**UNIVERSITY OF CHICAGO**, Chicago, IL

Research Assistant, XI SONG, *Dept. of Sociology*, 2016-2017
◇ Developed an R-application for a bivariate-locational scale model, which improves on current methods for examining intergenerational mobility.

Research Assistant, KATHLEEN CAGNEY, *Dept. of Sociology*, 2016-2017
◇ Performed research and analysis for a project examining the causal effect of crime on BMI and blood pressure using the Dallas Heart Study.
◇ Conducted research on the energy consumption and spending of Chicago residents.

Research Assistant, JENNY TRINITAPOLI, *Dept. of Sociology*, 2016
◇ Supervised a small team of undergraduate and graduate RA's in cleaning the Tsogolo la Thanzi (TLT) data, a longitudinal study of young people's fertility and reproduction in relation to the AIDS epidemic in Malawi.

Junior Data Scientist, JAMES EVANS, *Knowledge Lab, Computation Institute*, 2015
◇ Analyzed hypergraph network data using NetworkX in Python, visualizing the network in Gephi, and developing dynamic web graphics with Javasript for a project examining the social networks of academics.

JUN-AUG 2016	**DATA SCIENCE FOR THE SOCIAL GOOD**, Chicago, IL

Data Science Fellow, Predicting Adverse Police Incidents, *White House Police Data Initiative*
Conducted data science research in collaboration with the Metropolitan Nashville Police Department as part of the White House Police Data Initiative to build a generalizable machine learning model to predict police officers at risk of having an adverse incident.

Research Experience (*continued*)

2012-2014	New York University, New York, NY
	Research Assistant, Jeff Manza, *Dept. of Sociology*
	(1) Conducted research for a chapter on Occupy Wall Street. (2) Provided background research for the talk, "A Broken Public? Americans' Responses to the Great Recession," presented at Harvard's Kennedy School, April 2012.
	Research Assistant, Patrick Sharkey, *Dept. of Sociology*
	Coded historical and geophysical data to assist a project examining the cognitive impact of psychological stressors on youth in Chicago Public Schools.

Grants, Awards, and Fellowships

2018	University of Chicago, Computational Social Science Research Fund ($1,100)
2017-2018	Marshall Field Fellowship in Sociology ($27,000)
2017	University of Chicago, Computational Social Science Research Fund ($1,100)
2017	Berkeley Initiative for Transparency in the Social Sciences, RT2 Training and Travel Grant ($1,200)
2016-2017	Marshall Field Fellowship in Sociology ($25,000)
2015-2016	Marshall Field Fellowship in Sociology ($23,000)
Summer 2016	The Eric and Wendy Schmidt Data Science for the Social Good Summer Fellowship ($16,500)
2014-2019	University of Chicago, Social Science Fellowship ($57,000)

Honors and Distinctions

2014-2019	University of Chicago
	Marshall Field Fellow, 2015-2016, 2016-2017, & 2017-2018
	"Emerging Leaders" Panel, 2016 Social Sciences Visiting Committee
	High Pass*, Special Field Exam: *(highest distinction given for cohort)
2010-2012	New York University
	Graduation honors: *summa cum laude*
	Official selection: "Best Honors Thesis" Department of Sociology, nominated for the Phi Beta Kappa – Albert Borgman Prize.
	Founders Day Award, Dean's List

Honors and Distinctions (*continued*)

2008-2010	NORTHERN VIRGINIA COMMUNITY COLLEGE
	Graduation honors: *summa cum laude*
	Award of Academic Achievement in Mathematics
	NSCS Special Recognition for "Scholarship, Leadership, and Service"
	Presidential Scholar, Dean's List

Selected Scholarly Papers

2017	Mausolf, Joshua G. "Sexual Privilege: The Gendered Effect of University Prestige on College Sexual Activity."
2015	Mausolf, Joshua, Bridgit Donnelly, and Christine Cook. "Predicting Dropouts in Montgomery County Public Schools: A Machine Learning Approach to Educational Policy."
2011	Mausolf, Joshua G. "Ethical Racism and the Obamaian Epoch: Evaluating White Racial Attitudes in a 'Post Racial' Society."

Other Publications and Reviews

2016	Mausolf, Joshua, G. "The Unintended Consequences of Border Patrol: How U.S. Immigration Policy Backfired." *Chicago Policy Review*, April 15.

Research Proposals

2017	Mausolf, Joshua G. "The Role of Political Ideology in Shaping Corporate Organizational Forms, Strategy, and Political Behavior."
2015	Mausolf, Joshua G. "Analyzing Presidential Rhetoric and Occupy Wall Street: A Computational Approach."
2014	Mausolf, Joshua G. "Mapping Network Effects on Self-Perceived Life Chances of College Freshmen."

Statistical and Computational Methods

Python/R	**Computational Methods**
	Reproducible Research:
	Developing a variety of custom Python applications such as machine learning pipelines, web scrapers, text analysis, data cleanup and preprocessing, regular expressions, statistical analysis and graphs, interfacing with other languages (SQL/Linux), and dynamic web development
	Machine Learning:
	Logistic Regression, Random Forest, Decision Trees, Boosting, Bagging, Gradient Boosting, Linear SVM, K-Nearest Neighbors, K-fold Cross Validation, Temporal Cross Validation
	Data Mining and Web Scraping:
	Building complex Python and Bash web-scraping packages to navigate static or dynamic pages, pager/index count pages, or dynamic JavaScript pages; parse specified data text or alternate data; and download and organize this data in a custom database, data frame, or file structure
	API/JSON Queries:
	Utilizing Python API queries: examples: Twitter API, Sunlight Foundation API
SQL	**Relational Databases:**
	Using SQL (MySQL, PostgreSQL, SQL, SQLite) for data storage and complex queries on local and remote servers. Experience with database schema design, stored procedures, and ETL process from raw data
HTML/CSS	**Web Development:**
	HTML, CSS, JavaScript, to design and customize web pages, developing and embedding dynamic JavaScript/XML visual objects, building static webpages with Jeckel and dynamic webpages with Flask using a Python and SQL interface. Using R Shiny Apps and Rmarkdown for webpages.
Bash/Git	**Other:**
	Linux, Mac, and Windows Operating Systems, Shell, SSH protocol, Git, RegEx, Vim, Atom, Sublime
R/Stata	**Statistical Methods**
	Time-series Models:
	Autoregressive Fractionally-Integrated Moving Average (ARFIMA), Autoregressive Moving Average (ARMA), as well as OLS, 2SLS, IV, Poisson, and negative binomial time-series models
	Longitudinal Models:
	Mixed Effect Models (MRM) with and without auto-correlated errors for linear, binary, categorical, and multinomial data; Covariance Pattern Models (CPM); GEE models; and multi-level models
	Maximum Likelihood Estimation:
	Logit/Probit, Ordered Logit/Probit, Categorical Data Analysis, Multinomial, Negative Binomial, Poisson, Survival Analysis

STATISTICAL AND COMPUTATIONAL METHODS (*continued*)

HIERARCHICAL LINEAR MODELS:
HLM for use with linear, binomial, and categorical nested, longitudinal, or cross-classified data

LINEAR REGRESSION MODELS:
Ordinary Least Squares (OLS), 2-Stage Least Squares, Instrumental Variables (IV) Regression, Generalized Least Squares (GLS), and General Linear Models (GLM), Bayesian Linear Regression

DIMENSIONALITY REDUCTION:
Principal Components Analysis (PCA), Exploratory Factor Analysis (EFA), Confirmatory Factor Analysis (CFA)

GRAPHICAL:
Time-series and regression plots of model predictions versus observations, Margins Plots, Box Plots, Bar Charts, Histograms, Scatter Plots, Line Plots, Lowess/Lfit/Qfit Lines, and combinations of the above to produce clear and compelling visuals of complex data

OTHER ANALYSES OR TESTS:
Bootstrapping, Bagging, Adjusting Analyses for Survey Sampling Weights, ANOVA, MANOVA MANCOVA, One/Two-Sample T-Tests, F-test, Chi2 Test, Cohen's Kappa Test, A/B Testing, Bayesian Information Criterion (BIC), Akaike information criterion (AIC), and Least Log Likelihood, Likelihood Ratio Testing, Cronbach's Alpha, Regression Diagnostics to Assess Proper Model Fit and Specification

SURVEY METHODS AND RESEARCH DESIGN

R/STATA   SURVEY METHODS AND DESIGN

SURVEY WEIGHTING:
Calculation of base weights, unit non-response weights, item non-response weights, and post-stratification weights under a variety of survey implementations or combinations of simple random sampling, systematic sampling, PPS-sampling, stratified sampling, cluster-sampling, or multi-stage sampling using some combination thereof

SURVEY DESIGN AND OPTIMIZATION:
Designing the appropriate type of survey given a fixed budget or variance, desired sample size, expected response rate, and design factor to maximize results

QUESTIONNAIRE DESIGN:
Design of appropriate survey questions, indexes, and scales that meet cognitive requirements under a variety of implementations such as web (CAWI), phone (CATI), in-person (CAPI), and mail; as well as critically analyzing these questionnaires using pre-testing and cognitive in

OTHER RESEARCH DESIGN COMPETENCIES:
Experimental Design, A/B Tests, Focus Groups, Semi-Structured Interviewing, Unstructured Interviewing, Ethnographic Study

Survey Methods and Research Design (*continued*)

OTHER RESEARCH DESIGN COMPETENCIES:

Experimental Design, A/B Tests, Focus Groups, Semi-Structured Interviewing, Unstructured Interviewing, Ethnographic Study

DATASETS:

General Social Survey (GSS), American Community Survey (ACS), American National Election Survey (ANES), National Longitudinal Survey of Youth 1997 (NSLY97), Project on Human Development in Chicago Neighborhoods (PHDCN), National Immunization Survey (NIS), NORC Presidential Election Study, Online College Student Life Survey (OCSLS), Montgomery County Public Schools Survey, and Lakeside Neighborhood Survey (2015 PAPI), S&P ExecuComp-Compustat

Languages

LANGUAGES	ENGLISH (native), FRENCH (proficient), SPANISH (elementary)
	PYTHON, R, STATA, SQL, POSTGRESQL, MYSQL, SQLITE, LINUX, BASH, GIT, VIM, SSH, MARKDOWN, JSON, HTML, CSS, JAVASCRIPT, LATEX
LIBRARIES	PYTHON: Pandas, Numpy, Scikit-learn, SciPy, NLTK, Beautiful Soup, Flask, NetworkX, Matplotlib, Seaborn, Selenium, Tweepy, Sqlalchemy
	R: Tidyverse, ModelR, Caret, Sparklyr, Ggplot, StringR, Rvest, Shiny, Devtools
OTHER SOFTWARE	MICROSOFT OFFICE SUITE: Word, PowerPoint, Access, Outlook, Excel ADOBE APPLICATIONS: Acrobat Pro, Adobe Photoshop, Lightroom GOOGLE APPLICATIONS: Slides, Sheets, Documents, Gmail, Drive PROJECT MANAGEMENT: SAP, CRM, Trello, Slack VISUALIZATION AND ANALYSIS: Tableau, Gephi, Atlas.ti OPERATION SYSTEMS: Windows, Apple, and Linux

Teaching

2019-2020	Senior Preceptor, MASTERS IN COMPUTATIONAL SOCIAL SCIENCE (faculty director: James Evans)
2018-2019	Preceptor, MASTERS IN COMPUTATIONAL SOCIAL SCIENCE (MACS) (faculty director: Marc Berman)
FALL 2018	Teaching Assistant, PERSPECTIVES ON COMPUTATIONAL ANALYSIS (principal instructor: Rick Evans)
2017-2018	Preceptor, MASTERS IN COMPUTATIONAL SOCIAL SCIENCE (MACS) (faculty director: James Evans)
FALL 2017	Teaching Assistant, PERSPECTIVES ON COMPUTATIONAL ANALYSIS (principal instructor: Benjamin Soltoff)

Teaching (*continued*)

Fall 2017	Teaching Assistant, Computational Math Camp (principal instructor: Justin Grimmer)
Spring 2017	Teaching Assistant, Machine Learning for Public Policy (principal instructor: Jens Ludwig)
Winter 2017	Teaching Assistant, Computing for the Social Sciences (principal instructor: Benjamin Soltoff)
	Teaching Assistant, Social Science Inquiry II (principal instructor: Xi Song)
Fall 2016	Teaching Assistant, Computing for the Social Sciences (principal instructor: Benjamin Soltoff)
	Teaching Assistant, Social Science Inquiry I (principal instructor: Cheol-Sung Lee)
Spring 2016	Teaching Assistant, Statistical Methods of Research II (principal instructor: Xi Song)
	Teaching Assistant, Principal Components and Factor Analysis (principal instructor: Kathleen Cagney)

Professional Service

2018-2019	Discussant, MA Thesis Proposal Workshop, Masters in Computational Social Science
2017-2018	Coordinator, Computational Social Science Workshop
2016-2017	Manuscript Review Board, American Journal of Sociology

Occasional Reviewer

American Journal of Sociology
Social Science Research

Associations

American Sociological Association
Academy of Management
Population Association of America
National Society of Collegiate Scholars
Phi Theta Kappa International Honor Society
The University of Chicago Alumni Association
New York University Alumni Association