Casey F. Breen

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EDUCATION

In Progress	Ph.D., Demography, UC Berkeley Qualifying Exams: Causal Inference; Social Networks; and General Demography Committee: Joshua R. Goldstein (chair), Dennis M. Feehan, Ayesha S. Mahmud, Christopher Muller
2021	M.A., Biostatistics, UC Berkeley Committee: Sophia Rabe-Hesketh (chair), Dennis M. Feehan, Lexin Li
2019	M.A., Demography, UC Berkeley
2016	B.A., Economics (Mathematics minor), Pomona College

RESEARCH AREAS

Health and Mortality Disparities, Social Networks, Computational Social Science

PUBLICATIONS

2022	**Casey F. Breen** and Joshua R. Goldstein. 2022. "Berkeley Unified Numident Mortality Database: Public Administrative Records for Individual-Level Mortality Research." *Demographic Research.* Volume 47, Page 111-142. [open access] [replication]
2022	**Casey F. Breen**, Cormac Herley, and Elissa M. Redmiles. 2022. "A Large-Scale Measurement of Cybercrime against Individuals." Pp.1–41 in *ACM Conference on Human Factors in Computing Systems (**CHI**)*. New Orleans LA USA: ACM. [replication]

UNDER REVIEW

2022	**Casey F. Breen**, Ayesha S. Mahmud, and Dennis M. Feehan. "Novel Estimates Reveal Subnational Heterogeneities in Disease-Relevant Contact Patterns in the United States." (Resubmitted at *PLOS Computational Biology.*) [open access]
2022	**Casey F. Breen**. "Later-life Shifts in Ethnoracial Self-Identification: Evidence from Social Security Administrative Data." (Revise and Resubmit at *Population Research and Policy Review.*) [open access]
2022	Joshua R. Goldstein, **Casey F. Breen**, Serge Atherwood, and Maria Osborne. "Mortality Modeling of Partially Observed Cohorts Using Administrative Death Records." [open access]

In Progress

2022	**Casey F. Breen** and Dennis M. Feehan. "New Approaches to Collecting Data From a Respondent-Driven Sample."
	Casey F. Breen. "The Mortality Consequences of Home Ownership."
	Casey F. Breen. "Black-White Mortality Crossover: New Evidence from Administrative Data."
	Casey F. Breen and Nathan Seltzer. "Using Machine Learning Algorithms to Predict Age of Death."
	Andrea Miranda-González, Katerine Perez, and **Casey F. Breen**. "Understanding the Hispanic Mortality Paradox: Variation by Country of Origin."

Technical Reports

2022	**Casey F. Breen** and Maria Osborne. "An Assessment of CenSoc Match Quality." [open access]

Presentations

2022	**Casey F. Breen** and Nathan Seltzer. "Using Machine Learning Algorithms to Predict Age of Death." American Sociological Association. August 2022, Los Angeles, California.
	Casey F. Breen and Dennis M. Feehan. "New Approaches to Collecting Data From a Respondent-Driven Sample." American Sociological Association. August 2022, Los Angeles, California.
	Casey F. Breen, Cormac Herley, Elissa M. Redmiles. "A Large-Scale Study of Cybercrime Against Individuals." The 2022 ACM Conference on Human Factors in Computing Systems (**CHI**). May 2022, New Orleans, Louisiana. [video]
	Casey F. Breen. "Mortality Consequences of Home Ownership." Oral session at the Population Association of America. April 2022, Atlanta, Georgia.
	Casey F. Breen and Dennis M. Feehan. "New Approaches to Collecting Data From a Respondent-Driven Sample." Oral session at the Population Association of America. April 2022, Atlanta, Georgia.
	Katerine Perez, Andrea Miranda-González, and **Casey F. Breen.** "Understanding the Hispanic Mortality Paradox: Variation by Country of Origin." Oral session at the Population Association of America. April 2022, Atlanta, Georgia.
	Joshua R. Goldstein, Maria Osborne, Serge Atherwood, Leslie Root, Nathan Seltzer, Jordan Weiss, **Casey F. Breen**. "Mortality Modeling of Partially Observed Cohorts Using Administrative Death Records." Oral session at the Population Association of America. April 2022, Atlanta, Georgia.
2021	**Casey F. Breen.** "Black-White Mortality Crossover: New Evidence from Linked Administrative Data." IPUMS Data Intensive Research Conference. June 2021, virtual.
	Casey F. Breen, Ayesha S. Mahmud, Dennis M. Feehan. "Estimating Subnational Contact Patterns using Multilevel Regression with Poststratification." Oral session

at the Population Association of America. April 2021, virtual.

Joshua R. Goldstein, Guy Stecklov, and **Casey F. Breen**. "Black Names and the Longevity of Siblings." Oral session at the Population Association of America. April 2021, virtual.

Casey F. Breen. "Black-White Mortality Crossover: New Evidence from Linked Administrative Data." Poster session at the Population Association of America. April 2021, virtual.

- Best Poster Award, Population Association of America

2020   **Casey F. Breen.** "Shifting Racial Self-Identification for the Greatest Generation." American Sociological Association. August 2020, virtual.

Casey F. Breen. "The CenSoc Project." University of Toronto Data Workshop. July 2020, virtual.

Casey F. Breen. "Shifting Racial Self-Identification for the Greatest Generation." UC Berkeley Record Linkage Conference. February 2020, Berkeley, CA.

Professional Experience

2018-Present	*Graduate Student Researcher*, CenSoc Project (PI: Joshua Goldstein)
2022	*Research Scientist Intern*, Meta (Demography and Survey Science Team)
2020	*Intern*, Microsoft Research (Mentors: Elissa M. Redmiles and Cormac Herley)
2018, 2021	*Consultant*, World Health Organization
2016-2018	*Data Analyst*, Institute for Social Research and Data Innovation (IPUMS)

Awards

2021	Best Poster Award, Population Association of America
2017	Institute for Social Research and Data Innovation Outstanding Service Award

Departmental and Professional Service

2020 –	Organizer, Mortality Reading Group
Ad Hoc	Reviewer, *Demographic Research*, *Journal of the International AIDS Society*, *Biometrical Journal*, *The Journal of Mathematical Sociology*

Teaching Experience

2021	*Graduate Student Instructor*, UC Berkeley Formal Demography Workshop
2013-2015	*Economics Tutor*, Pomona College Quantitative Resource Center

Open Source Software

- **gompertztrunc**: R package for computing mortality differentials under double truncation
  [GitHub] [CRAN]

LANGUAGE PROFICIENCY AND SKILLS

- R (package development, Tidyverse), Python, ArcGIS, LaTeX, Beamer, Qualtrics.
- German (reading and oral comprehension high proficiency; intermediate speaker).