Casey F. Breen

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Academic Positions

2023-	Senior Postdoctoral Fellow in Computational Social Science, University of Oxford
	Leverhulme Centre for Demographic Science Department of Sociology Non-stipendiary Research Fellow, Nuffield College

Education

2023	Ph.D., Demography, UC Berkeley Committee: Joshua R. Goldstein (chair), Dennis M. Feehan, Ayesha S. Mahmud, Christopher Muller
2021	M.A., Biostatistics, UC Berkeley
2019	M.A., Demography, UC Berkeley
2016	B.A., Economics (Mathematics minor), Pomona College

Research Areas

Health and Mortality Disparities, Social Networks, Quantitative Social Science

Publications

2023	Casey F. Breen, Maria Osborne, Joshua R. Goldstein. "CenSoc: Linked Administrative Mortality Records for Individual-level Research." Forthcoming, <i>Scientific Data</i> .
2023	Joshua R. Goldstein, Maria Osborne, Serge Atherwood, and Casey F. Breen . "Mortality Modeling of Partially Observed Cohorts Using Administrative Death Records." <i>Population Research and Policy Review.</i> 42(3):36. doi: 10.1007/s11113-023-09785-z. [open access] [replication]
2023	Casey F. Breen. "Later-life Shifts in Ethnoracial Self-Identification: Evidence from Social Security Administrative Data." <i>Population Research and Policy Review.</i> 42(1):10. doi: 10.1007/s11113-023-09764-4. [open access] [replication]
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." <i>PLOS Computational Biology.</i> 18(12):e1010742. [open access] [replication]
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

Casey F. Breen. "The Longevity Benefits of Homeownership." (Revise and Resubmit, *Demography*.) [open access]

Casey F. Breen and Nathan Seltzer. "The Unpredictability of Individual-level Longevity." [open access]

In Progress

Casey F. Breen and Dennis M. Feehan. "New Approaches to Collecting Data From a Respondent-Driven Sample."

Casey F. Breen and Dennis M. Feehan. "New Sources for Demographic Data."

Casey F. Breen. "Black-White Mortality Crossover: New Evidence from Administrative Data."

Andrea Miranda-González, Katerine Perez, and Casey F. Breen. "Understanding the Hispanic Mortality Paradox: Variation by Country of Origin."

Joshua R. Goldstein, Guy Stecklov, and Casey F. Breen. "A Sibling Analysis of Longevity and African-American Names."

Technical Reports

2022

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

Presentations

2023

Casey F. Breen, Masoomali Fatehkia, Jiani Yan, Douglas Leasure, Ingmar Weber, and Ridhi Kashyap. "Mapping subnational gender gaps in internet and mobile adoption using social media data." Oxford Digital Gender Gap Workshop. October 2023, Oxford, United Kingdom.

Casey F. Breen, Saeed Rahman, Christina Kay, Joeri Smits, Steve Ahuka, Dennis M. Feehan "Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." British Society for Population Studies Annual Conference. September 2023, Oxford, United Kingdom.

Casey F. Breen and Dennis M. Feehan "New Approaches to Collecting Data From a Responent-Driven Sample." Oxford Hard-to-Reach Populations Conference. August 2023, Oxford, United Kingdom.

Casey F. Breen, Saeed Rahman, Christina Kay, Joeri Smits, Steve Ahuka, Dennis M. Feehan "Estimating Death Rates in Complex Humanitarian Emergencies Using the

Network Survival Method." Oxford Hard-to-Reach Populations Conference. August 2023, Oxford, United Kingdom.

Casey F. Breen. "The Longevity Benefits of Homeownership." IPUMS Data-Intensive Research Conference. July 2023, Minneapolis, Minnesota.

Discussant for PAA Session 146, "Formal Demography - Innovations in Theory and Methods," May 2021

Casey F. Breen. "The Longevity Benefits of Homeownership." IPUMS Data-Intensive Research Conference. July 2023, Minneapolis, Minnesota.

Casey F. Breen and Nathan Seltzer. "The Unpredictability of Individual-level Longevity." Population Association of America. April 2023, New Orleans, Louisiana.

Casey F. Breen. "The Effect of Record Linkage Algorithms on Research Results." Population Association of America. April 2023, New Orleans, Louisiana.

Casey F. Breen and Joshua R. Goldstein. "Berkeley Unified Numident Mortality Database: Public Administrative Records for Individual-level Mortality Research." Social Science History Association. November 2022, Chicago, Illinois.

Casey F. Breen. "Long Live the American Dream? The Longevity Benefits of Homeownership." Department of Sociology, Florida State University. November 2022, Tallahassee, Florida.

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.

Casey F. Breen. "Black-White Mortality Crossover: New Evidence from Linked Administrative Data." IPUMS Data Intensive Research Conference. June 2021, virtual.

2022

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

2023 —	Consultant, CenSoc Project (PI: Joshua Goldstein)			
2018-2023	Graduate Student Researcher, CenSoc Project (PI: Joshua Goldstein)			
2023 Consultant, IMPACT Initiatives				
2022 Research Scientist Intern, Meta (Demography and Survey Science Team)				
2020 Intern, Microsoft Research (Mentors: Elissa M. Redmiles and Cormac Herle				
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	2017 Institute for Social Research and Data Innovation Outstanding Service Award			

Departmental and Professional Service

2023	Discussant for PAA Session 191, "Novel Methods and Data on Aging and Related
	Applications"
2023	Discussant for PAA Session 156 "Social Networks"
2020-22	Organizer, UC Berkeley Mortality Reading Group
Ad Hoc	Reviewer, Population Studies, Demographic Research, Population Research and Pol-
	icy Review, Journal of the International AIDS Society, Biometrical Journal, The
	Journal of Mathematical Sociology, The Journal for the Scientific Study of Religion,
	ACM conference on Equity and Access in Algorithms, Mechanisms, and Optimization
	(EAAMO'23)

Teaching Experience

2023	Instructor, Demographic Methods, University of Oxford
2023	Tutorial Lead, Demography and Population, University of Oxford
2023	Instructor, Introduction to R, University of Oxford
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]

Research Mentoring

Position	Name	Current Position
Research Assistant, CenSoc Project	Anna Wikle	Biostats/Epi MPH Candidate, UC Berkeley
Research Assistant, CenSoc Project	Benjamin Shapiro	Researcher, IHME
Predoctoral Researcher, CenSoc Project	Katerine Perez	Sociology Ph.D. Student, Columbia Univ.
Cal-ADAR Fellow, UC Berkeley	Ashley Quiterio	Learning Sciences Ph.D. Student, Northwestern Univ.

Language Proficiency and Skills

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

References

Joshua R. Goldstein

Chancellor's Professor of Demography Department of Demography University of California, Berkeley 330 Social Sciences Building Berkeley, CA 94720-1980 ⋈ josh.goldstein@berkeley.edu

Sophia Rabe-Hesketh

Elissa M. Redmiles

Faculty Member & Research Group Leader
Max Planck Institute for Software Systems
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D-66123 Saarbrücken
Germany

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Dennis M. Feehan

Ayesha S. Mahmud

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