Casey F. Breen

Leverhulme Centre for Demographic Science

University of Oxford 42-43 Park End Street Oxford, OX1 1NF, UK **a** (812) 360-3930

caseybreen@berkeley.edu
github.com/caseybreen

aseybreen.com

ACADEMIC POSITIONS

2023-	Senior Postdoctoral Scholar, 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

Forthcoming	Casey F. Breen. "The Longevity Benefits of Homeownership: Evidence from Early 20th-Century U.S. Male Birth Cohorts." <i>Demography</i> . [open access] [replication]
Forthcoming	Casey F. Breen and Dennis Feehan. "New Data Sources for Demographic Research." Population and Development Review. [open access]
2023	Casey F. Breen, Maria Osborne, Joshua R. Goldstein. "CenSoc: Linked Administrative Mortality Records for Individual-level Research." <i>Scientific Data.</i> 10(1):802. doi: 10.1038/s41597-023-02713-y. [replication]
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] [R Package]
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

Under Review

cation

Casey F. Breen and Nathan Seltzer. "Demographic Perspectives on Predicting Individual-level Mortality." [open access]

Human Factors in Computing Systems (CHI). New Orleans LA USA: ACM. [repli-

In Progress

Casey F. Breen. "Black-White Mortality Crossover: New Evidence from Linked Social Security Records."

Casey F. Breen, Saeed Rahman, Christina Kay, Joeri Smits, Steve Ahuka, and Dennis M. Feehan. "Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." [Pre-registration]

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."

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

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 († Invited)

2024 "Mapping Subnational Gender Gaps in Internet and Mobile Adoption Using Social Media Data." European Population Conference. June 2024, Edinburgh, UK.

"Black-White Mortality Crossover: New Evidence from Linked Social Security Records." MORTAL Conference, University of Oxford. June 2024, Oxford, UK.

"Measuring Mortality in Humanitarian Emergencies." Crisis Ready, invited panelist. Remote. "Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." Population Studies Group, London School of Hygiene and Tropical Medicine. May 2024, London, UK.†

"Mapping Subnational Gender Gaps in Internet and Mobile Adoption Using Social Media Data." Population Association of American. April 2024, Columbus, Ohio.

"Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." Population Association of American. April 2024, Columbus, Ohio.

"Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." Measuring Adult Mortality Community of Practice Webinar, United Nations Statistical Commission. January 2024, Virtual. †

"Mapping Subnational Gender Gaps in Internet and Mobile Adoption Using Social Media Data." Johns Hopkins Population Health Seminar Series. December 2023, Baltimore, Maryland. \dagger

"Computational Approaches to Estimating Key Demographic Quantities in Datasparse Settings." Oxford University, Leverhulme Centre for Demographic Science. December 2023, Oxford, United Kingdom.

"The Longevity Benefits of Homeownership." Social Science and History Association Annual Conference. November 2023, Washington D.C.

"CenSoc: Public Linked Administrative Mortality Records for Individual-Level Research." Social Science and History Association Annual Conference. November 2023, Washington D.C.

"Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." Quetelet Conference. November 2023, Louvain-la-Neuve, Belgium.

"New Approaches to Collecting Data from a Respondent-Driven Sample." Quetelet Conference. November 2023, Louvain-la-Neuve, Belgium.

"Mapping Subnational Gender Gaps in Internet and Mobile Adoption using Social Media Data." Oxford Digital Gender Gap Workshop. October 2023, Oxford, United Kingdom.

"Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." British Society for Population Studies Annual Conference. September 2023, Oxford, United Kingdom.

"New Approaches to Collecting Data From a Respondent-Driven Sample." Oxford Hard-to-Reach Populations Conference. August 2023, Oxford, United Kingdom.

"Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method." Oxford Hard-to-Reach Populations Conference. August 2023, Oxford, United Kingdom.

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

"The Unpredictability of Individual-level Longevity." Population Association of America. April 2023, New Orleans, Louisiana.

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

"Berkeley Unified Numident Mortality Database: Public Administrative Records for

2023

Individual-level Mortality Research." Social Science History Association. November 2022, Chicago, Illinois.

"The Longevity Benefits of Homeownership." Department of Sociology, Florida State University. November 2022, Tallahassee, Florida.†

"Using Machine Learning Algorithms to Predict Age of Death." American Sociological Association. August 2022, Los Angeles, California.

"New Approaches to Collecting Data From a Respondent-Driven Sample." American Sociological Association. August 2022, Los Angeles, California.

"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]

"Mortality Consequences of Home Ownership." Oral session at the Population Association of America. April 2022, Atlanta, Georgia.

"New Approaches to Collecting Data From a Respondent-Driven Sample." Oral session at the Population Association of America. April 2022, Atlanta, Georgia.

2021

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

"Estimating Subnational Contact Patterns using Multilevel Regression with Post-stratification." Oral session at the Population Association of America. April 2021, virtual.

"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

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

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

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

OPEN SOURCE SOFTWARE

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

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 Herley)
2018, 2021	Consultant, World Health Organization

2016-2018	Data Analyst, Institute for Social Research and Data Innovation (IPUMS)
Awards	
2023	Doctoral Completion Fellowship (UC Berkeley)
2021	Best Poster Award, Population Association of America
2018-2020	NIH Training Fellowship
2017	Institute for Social Research and Data Innovation Outstanding Service Award

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

Professional Activities

Referee

Demography, Population Studies, Demographic Research, Population Research and Policy Review, The Journal of the International AIDS Society, The Journal of Computational Social Science, Biometrical Journal, The Journal of Mathematical Sociology, The Journal for the Scientific Study of Religion, Historical Methods: A Journal of Quantitative and Interdisciplinary History, ACM conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO'23)

FIELD

Network Representative Co-Chair, Family Demography (SSHA 2024)

Poster Judge, "Mortality and Morbidity" (PAA 2024)

Chair, "Innovations in Data Infrastructure for Population Research" (PAA 2024)

Discussant, "History and the Political Economy of Inequality" (PAA 2024)

Discussant, "Methods and Mortality in Historical Demography" (SSHA 2023)

Chair, "Measurement Issues in Historical Data" (SSHA 2023)

Discussant, "Novel Methods and Data on Aging and Related Applications" (PAA 2023)

Discussant, "Network Methods" (PAA 2023)

Berkeley

Organizer, UC Berkeley Mortality Reading Group

New student ambassador, UC Berkeley Demography Department

RESEARCH MENTORING

Position	Name	Current Position
Research Assistant, DGG Project	Jiaxuan Li	MPhil Student, University of Oxford
Research Assistant, DGG Project	Jiani Yan	DPhil Student, University of Oxford
Research Assistant, CenSoc Project	Anna Wikle	Biostats/Epi MPH Candidate, UC Berkeley
Research Assistant, CenSoc Project	Benjamin Shapiro	Demographic 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

- \bullet 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

ightharpoonup josh.goldstein@berkeley.edu

Ridhi Kashyap

Professor of Demography
Department of Sociology
University of Oxford
⊠ ridhi.kashyap@nuffield.ox.ac.uk

Dennis M. Feehan

Associate Professor of Demography Department of Demography Berkeley, CA 94720-1980 ⋈ feehan@berkeley.edu

Christopher Muller

Professor of Sociology
Department of Sociology
Harvard University

⋈ muller@fas.harvard.edu