Casey F. Breen

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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, Christopher Muller, Ayesha S. Mahmud
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, Computational Social Science

PUBLICATIONS

Forthcoming	**Casey F. Breen**. "The Longevity Benefits of Homeownership: Evidence from Early 20th-Century U.S. Male Birth Cohorts." *Demography*. [open access] [replication]
2024	**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." *Scientific Data*. 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." *Population Research and Policy Review*. 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." *Population Research and Policy Review*. 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." *PLOS Computational Biology.* 18(12):e1010742. [open access] [replication]
2022	**Casey F. Breen** and Joshua R. Goldstein. "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. "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 and Nathan Seltzer. "Demographic Perspectives on Predicting Individual-level Mortality." [open access] [replication]

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." [open access] [replication]

IN PROGRESS

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

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 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	**Black-White Mortality Crossover: New Evidence from Linked Social Security Records**
	- *Lund University, Sweden.* (Scheduled)†
	- *Social Science and History Association. Toronto, Canada.* (Scheduled)
	- *British Society for Population Studies Annual Conference, University of Bath. September 2024, Oxford, UK.*
	- *MORTAL Conference, University of Oxford. June 2024, Oxford, UK.*

- *IPUMS Data Intensive Research Conference. June 2021, virtual.*
- *Poster session at the Population Association of America. April 2021, virtual.*

2024   **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.†*
- *Population Association of American. April 2024, Columbus, Ohio.*
- *CrisisReady, Invited Panelist. February 2024, Virtual.*
- *Measuring Adult Mortality Community of Practice Webinar, United Nations Statistical Commission. January 2024, Virtual.†*
- *Oxford University, Leverhulme Centre for Demographic Science. December 2023, Oxford, United Kingdom.*
- *Quetelet Conference. November 2023, Louvain-la-Neuve, Belgium.*
- *British Society for Population Studies Annual Conference. September 2023, Keele, United Kingdom.*
- *Oxford Hard-to-Reach Populations Conference. August 2023, Oxford, United Kingdom.*

2024   **Mapping Subnational Gender Gaps in Internet and Mobile Adoption Using Social Media Data.**

- *European Population Conference. June 2024, Edinburgh, UK.*
- *Population Association of America. April 2024, Columbus, Ohio.*
- *Johns Hopkins Population Health Seminar Series. December 2023, Baltimore, Maryland.†*
- *Oxford University, Leverhulme Centre for Demographic Science. December 2023, Oxford, United Kingdom.*
- *Oxford Digital Gender Gap Workshop. October 2023, Oxford, United Kingdom.*

2023   **The Longevity Benefits of Homeownership: Evidence from Early 20th-Century U.S. Male Birth Cohorts.**

- *Social Science and History Association Annual Conference. November 2023, Washington D.C.*
- *IPUMS Data-Intensive Research Conference. July 2023, Minneapolis, Minnesota.*
- *Department of Sociology, Florida State University. November 2022, Tallahassee, Florida.†*
- *Population Association of America. April 2022, Atlanta, Georgia.*

2023   **CenSoc: Public Linked Administrative Mortality Records for Individual-Level Research**

- *Social Science History Association Annual Conference. November 2023, Washington D.C.*
- *University of Toronto Data Workshop. July 2020, virtual.†*

2023   **New Approaches to Collecting Data from a Respondent Driven Sample**

- *Quetelet Conference. November 2023, Louvain-la-Neuve, Belgium.*
- *Oxford Hard-to-Reach Populations Conference. August 2023, Oxford, United Kingdom.*
- *American Sociological Association. August 2022, Los Angeles, California.*
- *Population Association of America. April 2022, Atlanta, Georgia*

2023	**Demographic Perspectives on Predicting Individual-Level Longevity** *- Population Association of America. April 2023, New Orleans, Louisiana.* *- American Sociological Association. August 2022, Los Angeles, California*
2023	**The Effect of Record Linkage Algorithms on Research Results.** *- Population Association of America. April 2022, New Orleans, Louisiana*
2022	**Berkeley Unified Numident Mortality Database: Public Administrative Records for Individual-level Mortality Research.** *Social Science History Association. November 2022, Chicago, Illinois.*
2022	**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]*
2021	**Estimating Subnational Contact Patterns using Multilevel Regression with Poststratification.** *- Population Association of America. April 2021, virtual.*
2020	**Shifting Racial Self-Identification for the Greatest Generation.** *- American Sociological Association. Roundtable. August 2020, virtual.* *- 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

2024–present	*Consultant*, MLP Project (PI: Steven Ruggles) - R01AG057679-06
2024–present	*Consultant*, Abandoned Settlements Project (PI: Mathew Hauer) - R21AG088598-01
2018–present	*Consultant, graduate student researcher*, CenSoc Project (PI: Joshua R. Goldstein) - R01AG076830-02, R01AG058940-03
2023	*Consultant*, IMPACT Initiatives
2022	*Research Scientist Intern*, Meta (Demography and Survey Science Team)
2020	*Ph.D. 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

Reviewer

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, PLOS One, 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)

Discipline

Chair, Health and Mortality: International Perspectives on Health and Mortality (BSPS 2024)
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)

Departmental

Organizer, UC Berkeley CenSoc Conference (upcoming)
Co-Organizer, Oxford Workshop on Digital Technologies and Sustainable Development
Organizer, UC Berkeley Mortality Reading Group
New student ambassador, UC Berkeley Demography Department

Research Mentorship

Name	Position	Current Position
Jiaxuan Li	Research Assistant, DGG Project	MPhil Student, University of Oxford
Jiani Yan	Research Assistant, DGG Project	DPhil Student, University of Oxford
Anna Wikle	Research Assistant, CenSoc Project	Biostats/Epi MPH Candidate, UC Berkeley
Benjamin Shapiro	Research Assistant, CenSoc Project	Demographic Researcher, IHME
Katerine Perez	Predoctoral Researcher, CenSoc Project	Sociology Ph.D. Student, Columbia Univ.
Ashley Quiterio	Cal-ADAR Fellow, UC Berkeley	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

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