Casey F. Breen

Department of Sociology
The University of Texas at Austin
305 E 23rd St
Austin, Texas 78712

☎ (812) 360-3930
✉ casey.breen@austin.utexas.edu
⌂ github.com/caseybreen
⌂ caseybreen.com

Academic Positions

2025–	Assistant Professor of Sociology, University of Texas at Austin
	Faculty Affiliate, Population Research Center
	Faculty Affiliate, Center for Aging and Population Science
2023–2025	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

2025	**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." *Proceedings of the National Academy of Sciences.* 122(42):e2416624122. [open access] [replication]
2025	**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." *American Journal of Epidemiology.* [open access] [Pre-registration] [replication]
2024	**Casey F. Breen**. "The Longevity Benefits of Homeownership: Evidence from Early 20th-Century U.S. Male Birth Cohorts." *Demography.* 61(6):1731-1757. [open access] [replication]
	⋆ Research profiled by: Fast Company, The Independent

2024	**Casey F. Breen** and Dennis Feehan. "New Data Sources for Demographic Research." *Population and Development Review.* 51(1):539–73. [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. [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. [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. [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." *ACM Conference on Human Factors in Computing Systems (CHI).* Pp.1–41. New Orleans LA USA: ACM. [replication]

UNDER REVIEW

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

IN PROGRESS

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

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

Casey F. Breen and Won-tak Joo. "Inference with Linked Data: A Social Scientist's Guide."

Casey F. Breen, Mike Bailey, Guanghua Chi, Veronica Rivera, Emilio Zagheni, and Elissa Redmiles. "Evidence of a Migration Preparatory Phase in Global Social Network Data"

Casey F. Breen, Till Koebe, and Ridhi Kashyap. "Fertility Impacts of 3G Mobile Expansion: Evidence from Nigeria."

Casey Breen and Sam Hwang. "Twins, Birth Order, and Life Expectancy: Evidence from Large-Scale Genealogical 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]
2022	Clémentine Rossier, Onikepe Owolabi, Seni Kouanda, Martin Bangha, Caron R. Kim, Bela Ganatra, Dennis Feehan, **Casey F. Breen**, Moussa Zan, Rachidatou Compaoré, Adama Baguiya, Ramatou Ouédraogo, Clement Oduor, Vincent Bagnoa, and Sherine Athero, "Describing the Safety of Abortion at the Population Level Using Network-Based Survey Approaches." *Reproductive Health.* 19, no. 1: 231, doi:10.1186/s12978-022-01518-3.

Presentations († Invited)

2025	**Black-White Mortality Crossover Paradox: New Evidence from Linked Social Security Records**
	- Max Planck Institute for Demographic Research. May 2025. Rostock, Germany.†
	- Historical Economic Demography Workshop, London School of Economics. January 2025. London, United Kingdom.
	- CenSoc Users Conference, UC Berkeley. December 2024. Berkeley, California.
	- Department of Economic History, Lund University. December 2024. Lund, Sweden.†
	- University of Washington, Sociology Department. November 2024, Seattle, Washington.†
	- UT-Austin, Sociology Department, November 2024. Austin, Texas.†
	- Social Science and History Association. October 2024, Toronto, Canada.
	- 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.
2025	**Mapping Subnational Gender Gaps in Internet and Mobile Adoption Using Social Media Data.**
	- Max Planck Institute for Demographic Research. May 2025. Rostock, Germany.†
	- Digital Inequalities Symposium, Sciences Po. December 2024, Paris, France.
	- Digital Inequality and Sustainable Development Workshop, Oxford University. October 2024, Oxford, UK.
	- 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.
2025	**Fertility Impacts of 3G Mobile Expansion: Evidence from Nigeria**
	- Max Planck Institute for Demographic Research. May 2025. Rostock, Germany.†
	- Population Association of America. April 2025. Washington D.C.

2025	**Population Research with Linked Data: Guide to Inference** - *Population Association of America. April 2025. Washington D.C.*
2025	**Estimating Death Rates in Complex Humanitarian Emergencies Using the Network Survival Method** - *Population Studies Cluster, New York University, Abu Dhabi. March 2025, Abu Dhabi, United Arab Emirates.†* - *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.*
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]

GRANTS

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

PROFESSIONAL EXPERIENCE

2023–2025	*Consulting Researcher*, Meta (Social Capital Lab)
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	*Research 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

2025	*Instructor of Record*, Topics in Computational Social Science, University of Oxford
2024	*Instructor*, Introduction to R, University of Oxford
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 (6x), Demographic Research (4x), Population Research and Policy Review (3x), Population Studies, The Journal of the International AIDS Society, The Journal of Computational Social Science, Biometrical Journal, PLOS One, The International Journal of Health Geographics, The Journal of Mathematical Sociology, The Journal of Population Ageing, Public Health Challenges, 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), ACM CHI Conference on Human Factors in Computing Systems (CHI 2025)

DISCIPLINE

Network Representative Chair, Demography (SSHA 2025)
Poster Judge Captain, "Data and Methods Poster Session" (PAA 2025)
Discussant, "Historical Policies and Health" (PAA 2025)
Chair, "Lessons of the COVID-19 Pandemic: How Did our Field Contribute and How Do We Prepare for Future Crises?" (PAA 2025)
Network Representative Chair, Demography (SSHA 2024)
Discussant, "Labor, Patents, and Regulation: Insights from Full Count Censuses" (SSHA 2024)
Chair, Environmental and Social Dimensions of Infectious Disease Mortality (SSHA 2024)
Chair, Health and Mortality: International Perspectives on Health and Mortality (BSPS 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 Users Conference
Co-Organizer, Oxford Workshop on Digital Technologies and Sustainable Development
Organizer, UC Berkeley Mortality Reading Group
New student ambassador, UC Berkeley Demography Department

GUEST LECTURES

Guest Lecture, UT Austin SOC 591L, Prof. Diane Coffey. Fall 2025.
Guest Lecture, Univ. of Oxford, Prof. Francesco Rompazzo. Fall 2024.
Guest Lecture, Univ. of Oxford, Prof. Aashish Gupta. Fall 2024.
Guest Lecture, UC Berkeley, Prof. Dennis Feehan. Fall 2022.

Guest Lecture, UC Berkeley, Prof. Carl Boe. Fall 2022.
Guest Lecture, UC Berkeley, Prof. Dennis Feehan. Spring 2021.

RESEARCH MENTORSHIP

NAME	POSITION	CURRENT POSITION
Jiaxuan Li	Thesis Advisor	MPhil Student, University of Oxford
Jiani Yan	Research Assistant, DGG Project	DPhil Student, University of Oxford
Xinyi Zhao	Research Assistant, DGG Project	DPhil Student, University of Oxford
Anna Wikle	Research Assistant, CenSoc Project	Research Data Analyst, Berkeley Leadership Program
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 medium proficiency; intermediate speaker).

REFERENCES

Joshua R. Goldstein
Chancellor's Professor of Demography
Department of Demography
University of California, Berkeley
✉ josh.goldstein@berkeley.edu

Dennis M. Feehan
Associate Professor of Demography
Department of Demography
University of California, Berkeley
✉ feehan@berkeley.edu

Ridhi Kashyap
Professor of Demography
Department of Sociology
University of Oxford
✉ ridhi.kashyap@nuffield.ox.ac.uk

Christopher Muller
Professor of Sociology
Department of Sociology
Harvard University
✉ muller@fas.harvard.edu