# Aja Sutton

Social Sciences Division & Department of Earth System Science
Stanford Doerr School of Sustainability
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## EDUCATION

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| 2023 | PhD Geography<br>University of Washington, Seattle, WA, USA |

- ‣ *Modeling the social and political contexts of United States health protective interventions during the COVID-19 pandemic*, Chair: Jonathan Mayer
- ‣ TADA-BSSR NIH T32 Fellowship in Data Science and Demography
- ‣ Certificate in Demographic Methods, Center for Studies in Demography and Ecology

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| 2014 | MSc Palaeopathology<br>Durham University, United Kingdom |
| 2012 | MA History<br>Western University, Canada |
| 2011 | BA (Hons.) History, and Classical Studies<br>Queen's University, Canada |

## EMPLOYMENT

2023 - Present  Postdoctoral Scholar
Social Sciences Division, Department of Earth System Science,
Stanford Doerr School of Sustainability, Stanford University, CA, USA
PI: Dr. J. H. Jones (Professor of Environmental Behavioral Science)

## RESEARCH INTERESTS

Population health, quantitative demography, social ecology, geospatial methods (incl. small area estimation), social & spatial epidemiology, human behavior & utility (decision) processes, (re)emerging infectious disease & antimicrobial resistance

## BOOK CHAPTERS

**Sutton, A.** and Z. W. Almquist. (2023). Small Area Estimation for Demographic Analysis. In Parfait M Eloundou-Enyegue (Ed). *Recent Trends in Demographic Data [Working Title]*. IntechOpen. DOI: 10.5772/intechopen.1001842

Gause, E., **A. Sutton**, and J. Mayer. (Forthcoming). The West African Ebola Epidemic 2014. In Jayson Funke, Waquar Ahmed, Ipsita Chatterjee, Steve McCauley (Eds.) *Geography in the 21st Century.* ABC-Clio/Bloomsbury.

## MANUSCRIPTS SUBMITTED

**Sutton, A.**, Z. W. Almquist, J. Mayer, and J. H. Jones. Mask-wearing and Trump support in the United States during the COVID-19 pandemic.

## MANUSCRIPTS IN PREPARATION

**Sutton, A.** and Z. W. Almquist. (Ante portas). Demographic and spatial distribution of respondent mask-wearing behaviors in the COVID-19 Trends and Symptoms Survey and correlation with the Behavioral Change COVID-19 survey.

**Sutton, A.**, Z. W. Almquist, and J. Wakefield. Re-evaluating spatial specifications for multi-level regression and post-stratification for small area estimation using complex survey data [Working title].

**Sutton, A.**, A. Hagopian, and Z. W. Almquist. (In progress). Seattle homelessness encampment access to and disruption of resources [Working title].

**Sutton, A.**, A. Hagopian, and Z. W. Almquist. (In progress). The environmental health hazards amongst Seattle homelessness encampments [Working title].

## CONFERENCE PAPERS, POSTERS & PRESENTATIONS

2023 **Sutton, A**., A. Hagopian, W. Walker, K. Salinas, B. Zhao, P. Hebert, and Z. W. Almquist. Seattle tent encampment locations in proximity to amenities and hazards, and the role of criminalization and removals in disrupting spatial networks [Conference Presentation]. International Network for Social Network Analysis — Sunbelt 2023, Portland, USA, June 27-July 1.

2023 **Sutton, A.**, A. Hagopian, W. Walker, B. Zhao, P. Hebert, and Z. W. Almquist. The impact of encampment dispersal on mobility and access to support services among individuals experiencing homelessness in Seattle-King County, Washington [Poster Presentation]. Population Association of America Annual Meeting, New Orleans, USA, April 12-15.

2022 **Sutton, A.**, Z. W. Almquist, J. Wakefield, A. Hazel, M. Kline, P. Smaldino, C. Moya, and J. H. Jones. Re-evaluating spatial multi-level regression with poststratification for small area estimation [Conference Presentation]. American Sociological Association Annual Meeting, Los Angeles, USA, August 5-9.

2022 **Sutton, A.**, Z. W. Almquist, J. Wakefield, A. Hazel, M. Kline, P. Smaldino, C. Moya, and J. Jones. Adherence to mask-wearing and trust in government: a Bayesian hierarchical analysis of COVID-19 social behavior in the United States [Conference Presentation]. Population Association of America Annual Meeting, Atlanta, USA, April 6-8.

2021 **Sutton, A.** Mask-wearing and trust in government during the COVID-19 pandemic in the United States: an analysis using logistic regression [Lightning Talk Presentation]. Center for Studies in Demography and Ecology, Seattle, USA, December 10.

2019 Strand, L., J. Mayer, M. Rosenthal, J. Russo, M. Sullivan, **A. Sutton**, S. D. Withers, and A. Basu. A remedy for despair? Short-term changes in economic conditions and opioid prescribing in Washington State [Poster Presentation]. International Society for Pharmacoeconomics and Outcomes Research Annual Conference, New Orleans, USA, May 21.

2017 **Sutton, A.** and T. Ostrander. Outside Looking In: Seattle as a cultural frontier, pre-contact to present [Conference Presentation]. Theoretical Archaeological Group North America Conference, Toronto, Canada, May 19.

2017 **Sutton, A.** and T. Ostrander. Make No Bones About It: practical tips for recognizing human vs. faunal remains [Conference Presentation]. Northwest Anthropological Conference, Spokane, USA, April 12-15.

2017 Ostrander, T., **A. Sutton**, and M. Bever. A Case Study Evidencing Pre-contact Reinterment of Inadvertently Discovered Human Remains [Conference Presentation]. Northwest Anthropological Conference, Spokane, USA, April 12-15.

2013 Gowland, R. and **A. Sutton**. 'I shall wear purple': Gender and the Life Course in Anglo-Saxon England [Conference Presentation]. Leeds International Medieval Congress, for Institute for Medieval Studies, University of Leeds, United Kingdom, July 1-4.

## GRANTS, FELLOWSHIPS & AWARDS

2023      Edward L. Ullman Doctoral Award for Excellence in Scholarship, Department of Geography, University of Washington, Seattle

| 2023 | Arch C. Gerlach Endowed Fellowship, Department of Geography, University of Washington, Seattle |
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| 2023 | Sunbelt-2023-INSNA Student Member Travel Award, International Network for Social Network Analysis |
| 2023 | Graduate School Conference Presentation Award, The Graduate School, University of Washington, Seattle |
| 2022 | Graduate Student Travel Award, Center for Statistics and the Social Sciences, University of Washington, Seattle |
| 2020 - 2022 | T32 Fellowship in Data Science and Demography: Training in Advanced Data Analytics for Behavioral and Social Sciences Research, National Institutions of Health (TADA-BSSR NIH), Center for Studies in Demography and Ecology, University of Washington, Seattle, Faculty mentors: Z. W. Almquist and J. Wakefield |

## SERVICE TO UNIVERSITY AND DEPARTMENT

| 2022-2023 | Quarterly Graduate Student Lightning Talks Organizer, Center for Studies in Demography and Ecology, University of Washington, Seattle |
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| 2020 - 2021 | Diversity and Equity Committee Member, Department of Geography, University of Washington, Seattle |
| 2019 | Session Chair, Geography Undergraduate Research Symposium, Department of Geography, University of Washington, Seattle |
| 2013 | Human Osteology Laboratory Demonstrator, Durham Archaeology Days, Durham University, Durham, United Kingdom |
| 2012 - 2013 | Vice-President (and Acting President), St. Chad's College Middle Common Room, Durham University, Durham, United Kingdom |

## EDITORIAL ACTIVITIES

| 2021 - Present | Managing Editor, Population Dynamics Lab, Center for Studies in Demography and Ecology, University of Washington, Seattle, Editor-in-Chief: S. Curran |
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| 2019 | Graduate Editor, Plenum: University of Washington Undergraduate Journal of Geography, Department of Geography, University of Washington, Seattle |

## TEACHING EXPERIENCE

**Teaching Assistant**, University of Washington, Seattle, WA, USA

### Urban Geographic Information Science

Advanced; 60 students, Spring 2021

- Technical instructor
- Taught advanced GIS and mapping methods, incl. geospatial and intermediate spatial statistical analysis methods using ESRI products
- Supported development of student independent research projects relating to urban geography and urban populations
- Revised, updated, and evaluated assignments (technical skills and reporting) and provided constructive feedback
- Developed student learning resources

### GIS and Mapping

Intermediate; 60 students, Winter 2020

- Technical instructor

- Taught intermediate GIS and mapping methods incl. geospatial analysis skills and effective geographic data processing and visualization using ESRI products; database management;
- Evaluated assignments (technical skills and reporting) and provided constructive feedback

### Geographical Patterns of Health and Disease (Instructor of record)

Advanced; 80 students, Spring 2019

- Independently developed weekly complementary lectures and discussion session programs complementary to the course materials using contemporary examples from recent news or research bulletins, including group and independent exercises and activities to reinforce key concepts and major course themes
- Provided a special focus on bioethics in health practice and emergency health response decision-making
- Provided research project development feedback and writing support
- Organized and managed peer-sharing poster sessions for final research projects

### Geography of Health and Healthcare (Instructor of record)

Intermediate; 80 students, Winter 2019

- Technical instructor
- Independently developed weekly discussion session programs highlighting core aspects of weekly course materials
- Independently developed group exercises and activities to reinforce key concepts and major course themes including political ecology of health event "story mapping" and introduction to ethical public health response scenarios
- Provided research project development feedback and writing support

### Geodemographics

Introductory; 120 students, Autumn 2018 & 2019

- Technical instructor
- Taught introductory GIS and mapping methods, introduction to census data, quantitative data management and core demographic concepts
- Provided support for and evaluation of assignments using multiple platforms (Tableau, ESRI ArcMap, QGIS)

**Teaching Assistant**, Western University, London, Ontario, Canada

### Plague, Pox and Flu: Disease in Global History

Intermediate; 2011-2012 year

- Managed and evaluated online discussion boards
- Provided research development and library resources advice
- Evaluated final essays and provided constructive feedback

## RESEARCH EXPERIENCE

2022 - 2023     **Doctoral Student Researcher**
Population Health Initiative and REACH Evergreen Treatment Services, University of Washington, Seattle, WA, USA
co-PIs: A. Hagopian and Z. W. Almquist

2021 - 2023     **Doctoral Student Researcher**
University of Washington, Seattle, USA
Laboratory: STAB (Space-Time Analysis, Bayes) Lab
PI: J. Wakefield

### Spatial methods for multilevel regression and poststratification

Description and personal responsibilities: I test Bayesian spatial statistical methods for the improvement of multilevel regression and poststratification for the model- based adjustment of subnational non-representative survey data, and for applications in small area estimation. I am responsible for data management, coding, testing, research design and presentation of results with mentorship from J. Wakefield.

### United Nations Under 5 Mortality Rate (U5MR) Estimation Project

Citation: United Nations Inter-agency Group for Child Mortality Estimation, Subnational Under-five and Neonatal Mortality Estimates, 2000–2021 Estimates developed by the United Nations Inter-agency Group for Child Mortality Estimation, United Nations Children's Fund, New York, 2023.

**2020 - 2023**   **Doctoral Student Researcher**
University of Washington, Seattle, USA
Laboratory: The Social, Spatial and Dynamic Analysis Lab
PI: Z. W. Almquist

2023   **The political ecology of mask-wearing and presidential candidate preference in the United States** — Doctoral dissertation research

Description and personal responsibilities: Using data from The Delphi Group at Carnegie Mellon University U.S. COVID-19 Trends and Impact Survey and the Behaviors and Behavioral Change COVID-19 survey, I built a hierarchical model of sociopolitical and spatial characteristics in the United States to evaluate the effect of presidential candidate preference on mask-wearing during the COVID-19 pandemic in the United States. I applied a political ecology of health theoretical framework, emphasizing human lived experience landscapes and the effects of social and political policy and identity.

**2012 - 2014**   **Graduate Student Researcher**
Durham University, Durham, Co. Durham, United Kingdom
PI: R. Gowland (advisor)
Thesis: "As our strength diminishes": Exploring early Anglo-Saxon concepts of old age in the bioarchaeological record from the fifth to seventh centuries CE

Description and personal responsibilities: Using osteological cemetery population, palaeopathological and funerary context data from multiple sites, I developed a profile of gender identities, the life course and concepts of what it was to be "old" in the early medieval British population during the fifth to seventh centuries CE. I was responsible for conceptualizing and designing the project, as well as data collection, analysis and presentation with mentorship from R. Gowland.

**2011 - 2012**   **Graduate Student Researcher**
Western University, London, ON, Canada
PI: S. McKellar (advisor)
Thesis: Monstrum ex Machina: Navigating the Social Meanings and Importance of Monsters and Freaks in the Late-Medieval and Modern Western World

Description and personal responsibilities: Using primary source materials including interview transcripts, print ephemera and media, and contemporary descriptions and memoirs, I traced the development of the Western concept of the body and physical abnormality using a Disability Studies and post-colonial perspective, from the beginning of European cabinets of curiosity to the post- Second World War demise of the traveling carnival and "freak show". I incorporated social theory from Irvine Goffman and Theodore Veblen to contribute to the academic conversation surrounding mediation of the observer and the observed. I was responsible for the conception, materials

collection, theorization and production of ideas, and formal write-up with mentorship from S. McKellar.

**OTHER WORK EXPERIENCE**

2018 -2023     Osteoarchaeologist
               Environmental Science Associates, Northern California Cultural Resources Group, Sacramento, CA, USA
                   Projects: Asian Art Museum Human Remains Project; San Francisco Public Utilities Commission Baker Beach (Golden Gate) Historic Cemetery

2014 - 2018    Osteoarchaeologist, Independent Consultant
               Greater Toronto Area, ON, Canada

**PROFESSIONAL MEMBERSHIPS**

American Association of Geographers, Population Association of America, International Network for Social Network Analysis