

Paige Park

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Summary

Demography, data science, sociology, and statistics. My expertise is at the intersection of AI, machine learning, and social science. My dissertation asks why deep learning improves demographic forecasting.

Education

- 2021-** **Ph.D. in Demography**, University of California, Berkeley
Dissertation Topic: Developing and interpreting deep learning models for demographic forecasting.
Committee: Dennis Feehan, Josh Goldstein, Ayesha Mahmud
- 2023** **M.A. in Statistics**, University of California, Berkeley
- 2022** **M.A. in Demography**, University of California, Berkeley
- 2021** **M.S. in Sociology**, Brigham Young University
Thesis Title: Occupational Attainment in Germany and the United States 2000–2016: The Role of Gender and Immigration Status
- 2020** **B.S. in Sociology**, Brigham Young University — Valedictorian
Capstone Title: Women’s Orgs in Northern Thailand: An Examination of Chiang Mai’s NGO Sector

Solo- and First-Authored Publications

- 2022** **Park, Paige N.** “Occupational Attainment Among Parents in Germany and the US 2000–2016: The Role of Gender and Immigration Status.” *Population Research and Policy Review*. 41(6): 2447-2492.
- 2021** **Park, Paige N.**, and Jane Lilly Lopez. “Of One Fold: How Religion, Culture, and Gender Intersect to Shape Integration for International Migrants Settling in Utah, USA.” *Ethnography and Qualitative Research*. 14(3): 503-525.
- 2021** **Park, Paige N.**, Scott R. Sanders, Michael R. Cope, Kayci A. Muirbrook, Carol Ward. “New Perspectives on the Community Impact of Rural Education Deserts.” *Sustainability*. 13(4): 12124.

Other Publications

- 2024** Dow, William H., Julia M. Goodman, Paloma Lin, and **Paige N. Park**. “Learning from employer experiences with paid leave policy expansions during the COVID-19 pandemic.” *Health Affairs Scholar* 2(10): qxae122.
- 2023** Cope, Michael R., Kayci A. Muirbrook, **Paige N. Park**, et al. “Understanding Environmentalism: The Interplay between Politics and Religion on Environmental Attitudes from Rural Utah.” *Society & Natural Resources*. 36(4):405-424.
- 2021** Cope, Michael R., Jorden E. Jackson, Kayci M. Muirbrook, Carol Ward, **Paige N. Park**, and Genevieve M. Smith. “Sense of Community on Collegiate Campus and Graduation Expectations: An Exploratory Study.” *SN Social Sciences*. 1(2): 1–19.
- 2021** Cope, Michael R., Kayci A. Muirbrook, Jorden E. Jackson, **Paige N. Park**, Carol Ward, Curtis Child, and Jonathan A. Jarvis. “Experiences with General Education: How Sense of Community Shapes Students’ Perceptions.” *Sage Open*. 11(4): 1-19.
- 2020** Sanders, Scott R., Michael R. Cope, **Paige N. Park**, Wesley R. Jeffery, and Jorden E. Jackson. “Infants without Health Insurance: Racial/Ethnic and Rural/Urban Disparities in Infant Households’ Insurance Coverage.” *PLOS ONE*. 15(1): e0222387: 1–13.
- 2020** Cope, Michael R., **Paige N. Park**, Jorden E. Jackson, Kayci A Muirbrook, Carol Ward, Scott S. Sanders, and Ralph B. Brown. “Theoretical Discussion on Community as Story and the Dynamic Nature of Community: Perceptions, Place, and Narratives about Change.” In *New Horizons in Education and Social Studies, Vol.2*, edited by Vlasta Hus, UK: Book Publisher International. DOI: 10.9734/bpi/nhess/v2.
- 2019** **Park, Paige N.** “How Places Make Us: Novel LBQ Identities in Four Small Cities, by Japonica Brown-Saracino, Chicago: University of Chicago Press, 2018. 295 pp. \$35.00 (paper). ISBN-13: 978-0-226-36125-3.” *Rural Sociology*. 1(2019): 184–186.
- 2019** Cope, Michael R., **Paige N. Park**, Jorden E. Jackson, Kayci A. Muirbrook, Scott R. Sanders, Carol Ward, and Ralph B. Brown. “Community as Story and the Dynamic Nature of Community: Perceptions, Place, and Narratives about Change.” *Social Sciences*. 8(70): 1–16.

Manuscripts under Review

Park, Paige N. “Next-Generation Mortality Forecasting with Deep Learning” *Under Review at Demography*.

Selected Manuscripts in Draft

Park, Paige N., Dennis M. Feehan, and Pratik Sachdeva. “What do we lose if we lose the DHS? Quantifying research impact with digital trace data” *Intended for International Journal of Epidemiology*.

Park, Paige N. and Joshua R. Goldstein. “Mortality Reversals in the US: Geographic Patterns and New Models for Fluctuating Time Series.” *Intended for Population Research and Policy Review*.

Park, Paige N. “Old-Age Mortality Smoothing: An Age-Old Dilemma Requiring Modern Statistical Problem Solving.” *Intended for Demographic Research*.

Selected Conference Presentations and Invited Talks

2025	“Next-Generation Mortality Forecasting with Deep Learning.” Invited talk at the <i>Max Planck Institute for Demographic Research</i> , Rostock, Germany
2025	“Reevaluating Parametric Models for Old-Age Mortality Smoothing” Invited talk at the mortality experts meeting at the <i>7th Human Mortality Database Symposium</i> , Paris, France
2025	“Next-Generation Mortality Forecasting with Deep Learning.” Paper presented at the <i>7th Human Mortality Database Symposium</i> , Paris, France
2025	“Deep Learning for Mortality Prediction.” Paper presented at the <i>Population Association of America Conference</i> , Washington D.C.
2024	“Old-Age Mortality Smoothing: Re-evaluating the Kannisto Model.” Invited talk at the <i>Annual Human Mortality Database (HMD) Conference</i> , Berkeley, CA.
2024	“Mortality Reversals in the US: Geographic Patterns and New Modeling Approaches.” Paper presented at the <i>Population Association of America Conference</i> , Columbus, OH.
2023	“Learning from Employer Responses to Paid Leave Policy Expansions During the COVID-19 pandemic.” Paper presented at the <i>Population Association of America Conference</i> , New Orleans, LA.
2019	“Psychological Sense of Community in Rural Utah: The Religious Divide.” Paper presented at the <i>Pacific Sociological Association Conference</i> , Oakland, CA.

Experience

2025-	Data Science and AI Fellow , D-Lab, UC Berkeley.
2025	Head Graduate Student Instructor , Economic Demography C175, UC Berkeley.
2025	Graduate Student Assistant , Formal Demography Workshop, UC Berkeley.
2024	Team Lead , Predicting Fertility Data Challenge (PreFer).
2024	Graduate Student Researcher , Human Mortality Database (HMD).
2024	Graduate Student Instructor , Economic Demography C175, UC Berkeley.
2022–2023	Graduate Student Researcher , Department of Demography, UC Berkeley.

2019	Primary Investigator , Project Evaluation and Assessment Team, Brigham Young University.
2019–2020	Teaching Assistant , Ballard Center for Social Impact, Brigham Young University.
2018	Teaching Assistant , Methods of Research in Sociology, Brigham Young University.
2017–2021	Student Researcher , Department of Sociology, Brigham Young University.

Grants and Scholarships

2025	D-Lab Data Science and AI Fellowship (~\$5,000).
2024	National Institute of Health Training Grant (~\$65,000).
2023	National Institute of Health Training Grant (~\$63,000).
2022	Betty Scott Excellence Scholarship (\$22,160).
2022	National Institute of Health Training Grant (~\$61,500).
2021	National Institute of Health Training Grant (~\$61,300).
2020	Ella Carpenter Jensen Fellowship (\$2,500).
2017–2020	Full-Tuition Academic Scholarship (~\$2,900 per semester).
2019	Mary Lou Fulton Travel Grant (\$680).
2019	Experiential Learning Grant (\$520).
2019	Program Evaluation and Assessment Team (PEAT) Experiential Scholarship (\$1,000).
2019	Global Women’s Studies Experiential Learning Grant (\$1,000).

Selected Technical Coursework

STAT 201A	Introduction to Probability at an Advanced Level
STAT 201B	Introduction to Statistics at an Advanced Level
STAT 243	Introduction to Statistical Computing
STAT 230A	Linear Models
STAT 232	Experimental Design
SOC 273L	Computational Social Science

DEMOG 210	Demographic Methods: Rates & Structures
DEMOG 260	Mathematical Demography

Selected Substantive Coursework

DEMOG 200	Fundamentals of Population Thought
DEMOG 275A	Economic Demography
MPA 631	Public Program Evaluation
STAT 222	Master's of Statistics Capstone Project

Summer Internships and Programs

2020	The American Enterprise Institute's Summer Honors Program.
2019	Project Evaluation & Assessment Team (PEAT) Internship - Thailand

Computing Proficiencies

R, Python, \LaTeX , GPU Cluster Computing, Tableau