

# Paige Park

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## Summary

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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

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- 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

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- 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

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- 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.

## Technical Tutorials

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- 2025** **Paige N. Park**, Forecasting Social Outcomes with Deep Neural Networks. UC Berkeley D-Lab Data Science Blog.

## Manuscripts under Review

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

## Selected Manuscripts in Draft

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**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

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

## Experience

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| <b>2025-</b> | <b>Data Science and AI Fellow</b> , D-Lab, UC Berkeley.                          |
| <b>2025</b>  | <b>Head Graduate Student Instructor</b> , Economic Demography C175, UC Berkeley. |
| <b>2025</b>  | <b>Graduate Student Assistant</b> , Formal Demography Workshop, UC Berkeley.     |
| <b>2024</b>  | <b>Team Lead</b> , Predicting Fertility Data Challenge (PreFer).                 |

<b>2024</b>	<b>Graduate Student Researcher</b> , Human Mortality Database (HMD).
<b>2024</b>	<b>Graduate Student Instructor</b> , Economic Demography C175, UC Berkeley.
<b>2022–2023</b>	<b>Graduate Student Researcher</b> , Department of Demography, UC Berkeley.
<b>2019</b>	<b>Primary Investigator</b> , Project Evaluation and Assessment Team, Brigham Young University.
<b>2019–2020</b>	<b>Teaching Assistant</b> , Ballard Center for Social Impact, Brigham Young University.
<b>2018</b>	<b>Teaching Assistant</b> , Methods of Research in Sociology, Brigham Young University.
<b>2017–2021</b>	<b>Student Researcher</b> , Department of Sociology, Brigham Young University.

## Grants and Scholarships

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

## Selected Technical Coursework

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<b>STAT 201A</b>	Introduction to Probability at an Advanced Level
<b>STAT 201B</b>	Introduction to Statistics at an Advanced Level

<b>STAT 243</b>	Introduction to Statistical Computing
<b>STAT 230A</b>	Linear Models
<b>STAT 232</b>	Experimental Design
<b>SOC 273L</b>	Computational Social Science
<b>DEMOG 210</b>	Demographic Methods: Rates & Structures
<b>DEMOG 260</b>	Mathematical Demography

### **Selected Substantive Coursework**

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

### **Summer Internships and Programs**

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

### **Computing Proficiencies**

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R, Python, L<sup>A</sup>T<sub>E</sub>X, GPU Cluster Computing, Tableau