

ELIZABETH E. BRUCH

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(All positions at the University of Michigan unless otherwise noted.)

CURRENT POSITION

2023-present	Associate Director, Michigan Institute for Data Science
2017-present	External Faculty, Santa Fe Institute
2016-present	Associate Professor of Sociology and Complex Systems
2016-present	Associate Research Professor, Institute for Social Research

PRIOR POSITIONS

2017-2023	Director, Computational Social Science Initiative
2008-2016	Assistant Professor of Sociology and Complex Systems
2008-2016	Assistant Research Professor, Institute for Social Research
2006-2008	Robert Wood Johnson Postdoctoral Fellow

SCHOOLING

2008	M.S. in Statistics, University of California, Los Angeles
2006	Ph.D. in Sociology, University of California, Los Angeles
1999	B.A. in Sociology, Reed College, Portland

HONORS AND AWARDS (ASA = American Sociological Association)

2025	KW Deutsch Visiting Professorship, WZB Social Science Center
2021	Innovation Prize, ASA Methodology Section
2015	Merton Prize, International Network of Analytical Sociologists
2015	Outstanding Article Award, ASA Mathematical Sociology Section
2006	Best Article Award, ASA Community and Urban Sociology Section
2006	Outstanding Article Award, ASA Rationality and Society
2006	American Journal of Sociology Gould Prize
1999	Reed College Class of '21 Award recognizing "creative work of notable character, involving an unusual degree of initiative and spontaneity."

FELLOWSHIPS AND GRANTS

Fellowships

2018-2019	Fellow, Institute for Advanced Study, Berlin
2013-2014	Fellow, Center for Advanced Study in the Behavioral Sciences

2006-2008 Robert Wood Johnson Foundation Health Policy Fellow
2000-2003 National Science Foundation Graduate Research Fellow

Extramural Grants (only include those where PI or co-PI)

2014-2019 National Institute of Health R-25 Award, \$980k (PI)
2014-2019 National Institute of Health K01 Award, \$653k (PI)
2010-2013 National Institute of Health R-21 Award, \$275k (co-PI)
2004-2005 National Science Foundation Dissertation Grant, \$7.5k

Internal Grants over \$15,000

2024-2026 Associate Professor Research Fund, \$30k
2022-2024 Michigan Institute for Data Science, \$75k
2021-2025 Center for Academic Innovation, \$280k
2023 Population Studies Center New Investigator Fund, \$18k
2013, 2016 UM Support for Interdisciplinary Research, \$60k

PUBLICATIONS (* denotes student or postdoc coauthor)

Monograph

Bruch, Elizabeth. (expected 2026). *Date Like a Local*. Accepted for publication at *Princeton University Press*, final manuscript in preparation.

Under Review

Field, Elly* and Elizabeth Bruch. 2025. "The Co-Evolution of Neighborhoods and Schools." Under 3rd Review at the *American Journal of Sociology*.

Peer Reviewed Articles

Malik, Jai*, Fred Feinberg, and Elizabeth Bruch. 2025. "From Transcripts to Trajectories: A Framework for Studying Academic Pathways." *Proceedings of the National Academy of Sciences (NEXUS)* 4: pgaf210.

Bruch, Elizabeth. 2023. "Robert Mare's Legacy in Neighborhood Research." *Research in Social Stratification and Mobility* 88:100811.

Kizilcec, René, Rachel Baker, Elizabeth Bruch, Kalena E. Cortes, Laura T. Hamilton, David Nathan Lang, Zachary A. Pardos, Marissa E. Thompson, Mitchell L. Stevens. 2023. "From Pipelines to Pathways in the Study of Academic Progress." *Science* 380:344-347.

Feinberg, Fred, Elizabeth Bruch, Braun, Michael, Falk BH, Fefferman N, Feit EM, Helveston J, Larremore D, McShane BB, Patania A, Small ML. 2020. "Choices in networks: a research

- framework.” *Marketing Letters* 31:349-59. [Triennial Choice Symposium paper, Bruch co-organized and led the workshop.]
- Bruch, Elizabeth and Joffre Swait. 2019. “Choice Set Formation and its Implications for Segregation Dynamics.” *Demography* 56:1665-1692.
- Bruch, Elizabeth and Mark Newman. 2019. “The Structure of Online Dating Markets in U.S. Cities.” *Sociological Science* 6:219-234.
- Bruch, Elizabeth and Mark Newman. 2018. “Aspirational Pursuit of Mates in Online Dating Markets.” *Science Advances* 4:eaap9815.
- Endsley, Arthur*, Dan Brown, and Elizabeth Bruch. 2018. “Housing Market Activity is Associated with Disparities in Urban and Metropolitan Vegetation.” *Ecosystems* 21:1593-1607.
- Dellaert, Benedict, Joffre Swait, Vic Adamowicz, Theo Arentze, Elizabeth Bruch, Elisabetta Cherchi, Caspar Chorus, Bas Donkers, Fred Feinberg, Antony Marley, Linda Salisbury. 2017. “Individuals’ Decisions in the Presence of Multiple Goals.” *Consumer Needs and Solutions* 1:1-14. [Triennial Choice Symposium Paper, Bruch was attendee of workshop.]
- Bruch, Elizabeth and Fred Feinberg. 2017. “Decision Making in Social Environments.” *Annual Review of Sociology* 43:207-227.
- Bruch, Elizabeth, Fred Feinberg, and Kee Yeun Lee*. 2016. “Extracting multistage screening rules from online dating activity data.” *Proceedings of the National Academy of Sciences* 113:10530-10535.
- Bruch, Elizabeth and Jon Atwell*. 2015. “Agent-Based Models in Empirical Social Research.” *Sociological Methods and Research* 44:186-221.
- Bruch, Elizabeth. 2014. “How Population Structure Shapes Neighborhood Segregation.” *American Journal of Sociology* 119:1221-1278.
- Bruch, Elizabeth, and Robert Mare. 2012. “Methodological Issues in the Analysis of Residential Preferences and Residential Mobility.” *Sociological Methodology* 42:103-154.
- Bruch, Elizabeth and Robert Mare. 2009. “Preferences and Pathways to Segregation: Reply to van de Rijt, Siegel, and Macy.” *American Journal of Sociology* 114:1181-98.
- Bruch, Elizabeth and Robert Mare. 2006. “Neighborhood Choice and Neighborhood Change.” *American Journal of Sociology* 112:667-709.

Book Chapters

Bruch, Elizabeth and Robert Mare. 2009. "Segregation Processes." In the *Oxford Handbook of Analytical Sociology*, edited by P. Bearman and P. Hedström. Oxford University Press.

Bruch, Elizabeth, Ross Hammond, and Peter Todd. 2015. "The Co-Evolution of Decision Making and Social Environments." Chapter in *Emerging Trends in the Social and Behavioral Sciences*, edited by Robert Kaplan and Stephen Kosslyn. John Wiley and Sons.

INVITED PRESENTATIONS (since 2015)

Keynotes, Plenaries, and Colloquiums

2026 (<i>scheduled</i>)	Sociology Department, New York University Gruter Institute for Law and Behavioral Research Population Studies Center, Brown University
2025	Network Science Institute, Northeastern University Economic Sociology, MIT
2024	International Conference for Computational Social Science
2023	Sociology Department, Duke University Sociology Department, University of Wisconsin Opportunity Insights, Harvard University WZB Social Science Center, Berlin Complexity Science Hub, Vienna Academy of Sociology, Cologne Sociology Department, University of Leipzig
2022	Sociology Department, Stanford University
2021	Sociology Department, Tel Aviv University Demography Department, UC Berkeley Sociology Department, University of North Carolina at Chapel Hill
2020	Institute for Advanced Study, Princeton University
2019	Sociology Department, University of Chicago Office of Population Research, Princeton University Sociology Department, Yale University Sociology Department, New York University Sociology Department, Oxford University Cognitive Science Department, Indiana University
2017	Sociology Department, Northwestern University
2016	Sociology Department, Columbia University
2015	Plenary, Annual Meeting of the American Sociological Association

Seminars and Workshops

2025 (<i>scheduled</i>)	Narrative Working Group, Columbia University
2025	Computational Social Science Seminar, Yale University Pathways Seminar, Stanford University

2024 “Rules of the Game” Symposium, Santa Fe Institute
 “Past & Future of Complex Systems” Symposium, Santa Fe Institute
 2021 “Biases in Machine/Human” Workshop, Princeton University
 2019 Data Science Seminar, New York University
 Institute for Analytical Sociology, Norrkoping, Sweden
 Population Seminar, Duke University
 Google Ventures, Mountain View
 2018 Workshop on Networks and Culture, Stanford University
 2017 Economic Demography Workshop, Washington University
 Analytical Sociology Workshop, European University Institute
 2016 “Decision Processes in Urban Environments” Workshop, Radcliffe
 Computational Social Science Seminar, University of Chicago
 PAM/CPC Seminar, Cornell University
 Northwestern Institute on Complex Systems
 2015 Organizational Behavior Seminar, Stanford University

PROFESSIONAL SERVICE AND LEADERSHIP

Editorial

Deputy Editor, *Sociological Science*, 2025-present
 Editorial Board, *Demography*, 2025-present
 Editorial Board, *Sociological Methodology*, 2008-2011, 2015-2018, 2022-present
 Consulting Editor, *Sociological Science*, 2017-2025
 Consulting Editor, *American Journal of Sociology*, 2011-2013
 Reviewer for the *American Journal of Sociology*, *American Sociological Review*, *Sociological Methodology*, *Social Forces*, *Sociological Methods and Research*, *Demography*, *Population Research and Policy Review*, *Science*, *Science Advances*, *PNAS*, and many other journals.

Non-departmental at the University of Michigan

Associate Director, Michigan Institute for Data Science, 2023-present
 University of Michigan Provost’s Committee on Analytics for Student Success and Equity Transformation, 2023-present
 Training Director, Population Studies Center, University of Michigan, 2022-present
 Member, Michigan Institute for Data Science Executive Committee, 2020-2023
 Member, Population Studies Center Advisory Committee, 2020-2023
 Member, Computing Education Task Force, University of Michigan, 2021
 Co-Chair, Quantitative Social Science Committee at University of Michigan, 2018
 Faculty advisor, University of Michigan’s Computational Social Science Graduate Workshop, September 2016-2018

Advisory Committees

Science Steering Committee, Santa Fe Institute 2020- present
 National Academy of Science Consensus Committee. 2013-2015

Committee on Population Statistics for Population Association of America, 2018-2021

Elected Positions

Council, Mathematical Sociology Section, American Sociological Association, 2025-present
Council, Methodology Section, American Sociological Association, 2018-2020, 2022-2024

Other Academic Service

Organizer, “AI in and the Future of Demographic Methods,” Session at the Population Association of America Meetings, 2026
Committee Chair, Merton Prize, International Network of Analytical Sociology 2023
Closing Panel, Meeting of the International Network of Analytical Sociology, Princeton NJ, 2023
Organizer, “Internet and other Online Data,” Session at the Population Association of America Meetings in Washington DC, 2020
Co-Organizer, “The Evolution of Search in Human Societies,” Google Ventures 2019
Co-Organizer, “Decision Processes on Networks,” Triennial Choice Symposium, 2019
Co-Organizer, “Mapping the Future of Analytical Sociology” Stockholm, 2017
Organizer, “Complex Systems,” Session at the American Sociological Association Meetings in Montreal, 2017
Organizer, “Modeling Population Dynamics,” Session at the Population Association of America Meetings in Chicago, 2017
Organizer, “Big Data and Population Processes” Session at the Population Association of America Meetings in Chicago, 2017
Co-Organizer, “Decision Processes in Urban Contexts,” Workshop at the Radcliffe Institute for Advanced Study, 2016
Discussant of session on “Segregation and Contextual Inequality” at the Annual Meetings of the Population Association of America, 2016
Organizer and Presider of “Simulation Models for Understanding Health and Mortality” at the Population Association of America, 2016
Program Committee member, International Conference on Computational Social Science, Helsinki Finland. 2015
Organizer of “Population Processes” session at the Annual Meetings of the American Sociological Association. 2014
Co-organizer of “Models Big and Small,” Center for the Study of Complex Systems at the University of Michigan. 2014
Senior Program Committee member, International Conference on Social Informatics (SocInfo). 2014
Organizer and Presider of “Behavioral Data and the Future of Stratification Research” [Thematic session] at the Annual Meetings of the American Sociological Association. 2013
Organizer and Presider of “Residential Mobility and Neighborhood Change” at the Annual Meetings of the Population Association of America. 2009
Discussant of session on “Segregation” at the Annual Meetings of the Population Association of America, 2007

TEACHING AND MENTORING

Undergraduate courses

Tipping Points, Bandwagons, and Cascades: From Individual Behavior to Population Dynamics
Computational Social Science I
Computational Social Science II
Introduction to Research Methods

Graduate courses

Quantitative Practicum
Research Logics
Analytical Sociology

Post-Graduate Training

Workshop on “Systems Science in Public Health,” Department of Epidemiology, 2016, 2017
Workshop on “Agent-based Modeling,” National Institute of Health, 2010, 2011.

Curricular Innovation (LSA = College of Literature, Science, & the Arts at Michigan)

Provost’s Committee on Analytics for Student Success and Equity Transformation, 2023-present
LSA “Computing Education” Task Force, 2021
LSA “Future of Quantitative Social Science at UM” Task Force (co-chair), 2018
LSA “Quantitative Social Science” Training Committee, 2016
National Institutes of Health Committee on “Best Practices in Modeling for Public Health,” 2015

Present Advisees

Galen Hall
Kai Matheson
Izabel Aguiar (postdoctoral scholar, Santa Fe Institute)

Dissertations Chaired or Co-Chaired

Jeff Lockhart (Assistant Professor at UC-Berkeley)
Elly Field (Postdoctoral Fellow at Brown University)
Anne Clark (Survey Statistician at the National Center for Educational Statistics)
Lydia Wileden (Assistant Research Professor at the University of Connecticut)
Constance Hsiung (Postdoctoral Fellow at Goethe University)
Michael Fang (Assistant Professor at Johns Hopkins University)
Jon Atwell (Assistant Professor at Stanford University)

Committee Member: Field Exam or Publishable Paper

Siwei Cheng, Sociology
Lacey Bobier, Sociology
Danaja Maldeniya, School of Information
Sidney Xiang, School of Information
Katherine Leu, Sociology
Nelson Travis Saldana, Sociology
George Cantwell, Physics

Committee Member: Dissertation

Jon Zelner, Sociology
Debra Hevenstone, Sociology
Yuan He, Sociology
Longxiu Tian, Marketing
Kee Yeun Lee, Marketing
Dana Turjeman, Marketing
Gwen Ahn, Marketing
Jessica Hoel, Economics
Marta Murray-Close, Economics
Michelle Debbink, Public Health
Yuan Christian-He, Sociology
Danaja Maldeniya, School of Information
Katherine Leu, Sociology
Ethan Johnston, Sociology
Annika Frum, Psychology
Max Jerdee, Physics
Sara Rimer, Engineering
Arthur Endsley, Resource Ecology