

ELIZABETH E. BRUCH

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ACADEMIC APPOINTMENTS

2026–	Professor of Sociology and Complex Systems, University of Michigan
2023–	Associate Director, Michigan Institute for Data Science (MIDAS)
2022–	Training Director, Population Studies Center, University of Michigan
2017–	External Faculty, Santa Fe Institute
2016–	Associate Research Professor, Institute for Social Research, University of Michigan
2017–2023	Director, Computational Social Science Initiative, University of Michigan
2016–2026	Associate Professor of Sociology and Complex Systems, University of Michigan
2008–2016	Assistant Professor of Sociology and Complex Systems, University of Michigan
2006–2008	Robert Wood Johnson Postdoctoral Fellow

EDUCATION

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

HONORS AND AWARDS

2025	KW Deutsch Visiting Professorship, WZB Berlin 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	American Journal of Sociology Gould Prize
2006	Best Article Award, ASA Community and Urban Sociology Section
2006	Outstanding Article Award, ASA Rationality and Society Section
1999	Reed College Class of '21 Award, recognizing “creative work of notable character, involving an unusual degree of initiative and spontaneity”

SELECTED PUBLICATIONS

Bolded venues indicate the journal. Authorship order largely reflects field conventions.

Bruch, Elizabeth. (in preparation). *Date Like a Local*. Princeton University Press (accepted; manuscript in final preparation, expected 2027).

Field, Elly and **Elizabeth Bruch**. 2026. “The Co-Evolution of Neighborhoods and Schools.” Forthcoming, *American Journal of Sociology*.

Malik, Jai, Fred Feinberg, and **Elizabeth Bruch**. 2025. “From Transcripts to Trajectories: A Framework for Studying Academic Pathways.” *PNAS Nexus* 4:pgaf210.

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

Bruch, Elizabeth and Joffre Swait. 2019. "Choice Set Formation and its Implications for Segregation Dynamics." *Demography* 56:1665–1692.

Bruch, Elizabeth and Mark Newman. 2018. "Aspirational Pursuit of Mates in Online Dating Markets." *Science Advances* 4:eaap9815.

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.

Feinberg, Fred, **Elizabeth Bruch**, Michael Braun, BH Falk, N Fefferman, EM Feit, J Helveston, D Larremore, BB McShane, A Patania, and ML Small. 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. 2014. "How Population Structure Shapes Neighborhood Segregation." *American Journal of Sociology* 119:1221–1278.

RESEARCH PLATFORMS

- **Revel** — Co-Principal Investigator, 2022–present. Online dating platform developed at the University of Michigan available to students with active university IDs; anticipated expansion into alumni networks in late 2026; provides experimental platform and data infrastructure for ongoing studies of partner search and choice. Supported by MIDAS seed funding.

FULL PUBLICATIONS

Monograph

Bruch, Elizabeth. (in preparation). *Date Like a Local*. Princeton University Press, accepted; expected 2027.

Peer-Reviewed Articles

Field, Elly and **Elizabeth Bruch**. 2026. "The Co-Evolution of Neighborhoods and Schools." Forthcoming, *American Journal of Sociology*.

Malik, Jai, Fred Feinberg, and **Elizabeth Bruch**. 2025. "From Transcripts to Trajectories: A Framework for Studying Academic Pathways." *PNAS 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, and Mitchell L. Stevens. 2023. "From Pipelines to Pathways in the Study of Academic Progress." *Science* 380:344–347.

Feinberg, Fred, **Elizabeth Bruch**, Michael Braun, BH Falk, N Fefferman, EM Feit, J Helveston, D Larremore, BB McShane, A Patania, and ML Small. 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, and Linda Salisbury. 2017. "Individuals' Decisions in the Presence of Multiple Goals." *Consumer Needs and Solutions* 1:1–14. [Triennial Choice Symposium paper.]
- 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**, Ross Hammond, and Peter Todd. 2015. "The Co-Evolution of Decision Making and Social Environments." In *Emerging Trends in the Social and Behavioral Sciences*, edited by Robert Kaplan and Stephen Kosslyn. John Wiley and Sons.
- 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.

RESEARCH FUNDING

Extramural Grants — Principal Investigator

- 2014–2019** National Institutes of Health R-25 Award (PI). \$980,000.
- 2014–2019** National Institutes of Health K01 Award (PI). \$653,000.
- 2004–2005** National Science Foundation Dissertation Grant (PI). \$7,500.

Extramural Grants — Co-Principal Investigator

- 2010–2013** National Institutes of Health R-21 Award (Co-PI). \$275,000.

Internal Grants (Over \$15,000)

- 2024–2026** University of Michigan Associate Professor Research Fund (PI). \$30,000.

- 2023–2025** Michigan Center for Academic Innovation (PI). \$280,000.
- 2022–2024** Michigan Institute for Data Science seed grant (Co-PI, Revel research platform). \$75,000.
- 2023** Population Studies Center New Investigator Fund (PI). \$18,000.
- 2013, 2016** UM Support for Interdisciplinary Research (PI). \$60,000.

FELLOWSHIPS

- 2018–2019** Institute for Advanced Study, Berlin
- 2013–2014** Center for Advanced Study in the Behavioral Sciences, Stanford
- 2006–2008** Robert Wood Johnson Foundation Health Policy Fellow
- 2000–2003** National Science Foundation Graduate Research Fellow

LEADERSHIP AND INSTITUTE BUILDING

- **Associate Director, Michigan Institute for Data Science (MIDAS)**, 2023–present. University-wide data science institute spanning all 19 schools and colleges; member of the executive leadership team responsible for research strategy, faculty recruitment, and external partnerships.
- **Director, Computational Social Science Initiative, University of Michigan**, 2017–2023. Founded and led the university's interdisciplinary computational social science program, including graduate training, seminar series, and external speaker program.
- **Training Director, Population Studies Center, University of Michigan**, 2022–present. Oversee Sociology arm of NIH T32-funded predoctoral and postdoctoral training program in population research.
- **Science Steering Committee, Santa Fe Institute**, 2020–present. Set research agenda for the institute's working groups, workshops, and resident faculty program.
- **Member, Provost's Committee on Analytics for Student Success and Equity Transformation, University of Michigan**, Serves the University of Michigan community by providing analysis that informs decisions about policies and practices that impact equitable student success. 2023–present.

EDITORIAL SERVICE

- 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 *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 other journals.

ADVISORY COMMITTEES AND ELECTED POSITIONS

Advisory

- Science Steering Committee, Santa Fe Institute, 2020–present
- Committee on Population Statistics, Population Association of America, 2018–2021
- National Academy of Sciences Consensus Committee, 2013–2015

Elected

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

SELECTED CONFERENCE AND WORKSHOP ORGANIZING

- Organizer, “AI and the Future of Demographic Methods,” Population Association of America, 2026
- Closing Panel, International Network of Analytical Sociology, Princeton, 2023
- Chair, Merton Prize Committee, International Network of Analytical Sociology, 2023
- Co-Organizer, “The Evolution of Search in Human Societies,” Google Ventures, 2019
- Co-Organizer, “Decision Processes on Networks,” Triennial Choice Symposium, 2019
- Co-Organizer, “Decision Processes in Urban Contexts,” Radcliffe Institute for Advanced Study, 2016
- Co-Organizer, “Mapping the Future of Analytical Sociology,” Stockholm, 2017
- Program Committee, International Conference on Computational Social Science, 2015

INVITED PRESENTATIONS

Keynotes, Plenaries, and Colloquia (since 2015)

2026	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	Duke University; University of Wisconsin; Opportunity Insights, Harvard; WZB Berlin; Complexity Science Hub, Vienna; Academy of Sociology, Cologne; University of Leipzig
2022	Sociology Department, Stanford University
2021	Tel Aviv University; UC Berkeley Demography; UNC Chapel Hill
2020	Institute for Advanced Study, Princeton
2019	University of Chicago; Princeton OPR; Yale; NYU; Oxford; Indiana University Cognitive Science
2017	Sociology Department, Northwestern University
2016	Sociology Department, Columbia University
2015	Plenary, Annual Meeting of the American Sociological Association

Seminars and Workshops (since 2015)

2026	Narrative Working Group, Columbia University
2025	Yale CSS Seminar; Stanford Pathways Seminar; Santa Fe Institute “Rules of the Game” Symposium
2024	Santa Fe Institute “Past & Future of Complex Systems” Symposium
2021	Princeton “Biases in Machine/Human” Workshop
2019	NYU Data Science Seminar; Institute for Analytical Sociology, Norrkoping; Duke Population Seminar; Google Ventures
2018	Stanford Workshop on Networks and Culture

- 2017** Washington University Economic Demography Workshop; European University Institute Analytical Sociology Workshop
- 2016** Radcliffe “Decision Processes in Urban Environments”; Chicago CSS Seminar; Cornell PAM/CPC; Northwestern Institute on Complex Systems
- 2015** Stanford Organizational Behavior Seminar

TEACHING

Undergraduate Courses

- Tipping Points, Bandwagons, and Cascades: From Individual Behavior to Population Dynamics
- Computational Social Science I and 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 Institutes of Health, 2010, 2011

CURRICULAR LEADERSHIP

- Member, Provost's Committee on Analytics for Student Success and Equity Transformation, University of Michigan, 2023–present
- Member, LSA “Computing Education” Task Force, University of Michigan, 2021
- Co-Chair, LSA “Future of Quantitative Social Science at UM” Task Force, 2018
- Member, LSA “Quantitative Social Science” Training Committee, University of Michigan, 2016
- Member, NIH Committee on Best Practices in Modeling for Public Health, 2015

MENTORING

Current Advisees

- Galen Hall (graduate student)
- Izabel Aguiar (postdoctoral scholar)

Dissertations Chaired or Co-Chaired

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

Cross-School Doctoral Committee Service — Ross School of Business

- Longxiu Tian (Marketing), Kee Yeun Lee (Marketing), Dana Turjeman (Marketing), Gwen Ahn (Marketing) — Ross School of Business, University of Michigan

Doctoral Committee Service — Field Exam or Publishable Paper

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

Doctoral Committee Service — Dissertation

- Jon Zelner (Sociology); Debra Hevenstone (Sociology); Yuan He (Sociology); Yuan Christian-He (Sociology); Katherine Leu (Sociology); Ethan Johnston (Sociology); Danaja Maldeniya (Information); Jessica Hoel (Economics); Marta Murray-Close (Economics); Michelle Debbink (Public Health); Annika Frum (Psychology); Max Jerdee (Physics); Sara Rimer (Engineering); Arthur Endsley (Resource Ecology)