

## Elizabeth Roberto

Department of Sociology  
Princeton University  
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### EDUCATION

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Ph.D. with Distinction, Sociology, Yale University, 2015

Dissertation: “The Boundaries of Spatial Inequality: Three Essays on the Measurement and Analysis of Residential Segregation”

Committee: Richard Breen (Chair), Julia Adams, Scott Page (University of Michigan)

Winner of the 2017 Marvin B. Sussman Dissertation Prize from Yale University

M.Phil., Sociology, Yale University, 2011

M.A., Sociology, Yale University, 2011

M.P.A., Education and Social Policy, The George Washington University, 2002

B.A., Human Services, Cum Laude with Special Honors, The George Washington University, 2000

### PROFESSIONAL APPOINTMENTS

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2015-present

James S. McDonnell Foundation Postdoctoral Fellow, Department of Sociology, Princeton University

2017-present

Research Affiliate, Institute for Analytical Sociology, Linköping University

### RESEARCH & TEACHING INTERESTS

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Social and Spatial Inequality, Urban Sociology, Computational Social Science, Quantitative Methods

### PUBLICATIONS

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#### Articles

Papachristos, Andrew V., Christopher Wildeman, and **Elizabeth Roberto**. 2015. “Tragic, but Not Random: The Social Contagion of Nonfatal Gunshot Injuries.” *Social Science & Medicine* 125: 139-150.

Hwang, Jackelyn, **Elizabeth Roberto**, and Jacob Rugh. Forthcoming 2018. “Residential Segregation in the Twenty-First Century and the Role of Housing Policy,” In *Blurred Boundaries, Real Consequences: The Intersection of Public Policy and Race*, edited by Josh Grimm and Jaime Loke. Baton Rouge, LA: Louisiana State University Press.

#### Under Review

**Roberto, Elizabeth**. “The Divergence Index: A Decomposable Measure of Segregation and Inequality.” <https://arxiv.org/abs/1508.01167> [Revise and Resubmit, *Sociological Methods and Research*]

**Roberto, Elizabeth**. “The Spatial Proximity and Connectivity (SPC) Method for Measuring and Analyzing Residential Segregation.” <https://arxiv.org/abs/1509.03678> [Under Review, *Sociological Methodology*]

## In Preparation

- Roberto, Elizabeth** and Jackelyn Hwang. “Barriers to Integration: Physical Boundaries and the Spatial Structure of Residential Segregation.” <https://arxiv.org/abs/1509.02574>
- Hwang, Jackelyn, **Elizabeth Roberto**, and Jacob Rugh. “Urban Transformations and the Changing Structure of Segregation in the 21st Century.”
- Roberto, Elizabeth**, Anthony A. Braga, and Andrew V. Papachristos. “Closer to Guns, Closer to Crime: The Role of Street Gangs in Facilitating Access to Illegal Firearms.”
- Breen, Richard, and **Elizabeth Roberto**. “A New Measure for Intergenerational Social Mobility.”
- Roberto, Elizabeth**. “The Local Dynamics of Residential Segregation and Violent Crime.”

## Essays and Reports

- Roberto, Elizabeth**. 2008. *Commuting to Opportunity: The Working Poor and Commuting in the United States*. Washington, D.C.: The Brookings Institution.
- U.S. Bureau of Transportation Statistics. 2007. “Introduction” in *Compendium on Congestion: Issues and Analyses Across Modes*. Washington, DC.
- U.S. Bureau of Transportation Statistics. 2007. *Significant Accomplishments Report 2007*. Washington, D.C.
- Bose, Jonaki; Lee Giesbrecht; Joy Sharp; Jeffery Memmott; Maha Khan; and **Elizabeth Roberto**. 2004. “A Picture of Long-Distance Travel Behavior of Americans Through Analysis of the 2001 National Household Travel Survey,” in the proceedings of the *National Household Travel Survey Conference: Understanding Our Nation’s Travel*. Washington, D.C.: Transportation Research Board of the National Academies.
- U.S. Government Accountability Office. 2004. *Transportation-Disadvantaged Seniors: Efforts to Enhance Senior Mobility Could Benefit from Additional Guidance and Information*, GAO-04-971. Washington, D.C.
- Roberto, Elizabeth**. 2003. *Commuting Expenses: Disparity for the Working Poor*. Washington, D.C.: U.S. Bureau of Transportation Statistics.
- Roberto, Elizabeth**. 2002. *Current and Experimental Methods for Measuring Poverty in the U.S.* Washington, D.C.: U.S. Bureau of Transportation Statistics.

## RESEARCH GRANTS & FELLOWSHIPS

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- 2015-present, “The Spatial Dynamics of Social Inequality in U.S. Cities,” James S. McDonnell Foundation Postdoctoral Fellowship Award in Studying Complex Systems, \$200,000.
- under review*, “The Spatial Structure of Segregation in Copenhagen and Houston,” submitted to the Kraks Fond with Elizabeth Korver-Glenn.
- under review*, “The Relationship between Residential Segregation, Migration, and the Built Environment,” submitted to the Swedish Research Council (Vetenskapsrådet) with Sarah Valdez.
- under review*, “Spatial Analysis of Segregation and Ethnic Enclaves,” submitted to the Inclusive Growth Research Infrastructure Diffusion 2 (InGRID-2) project with Sarah Valdez.

## AWARDS AND HONORS

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- 2017, Marvin B. Sussman Dissertation Prize, Yale University
- 2008-2015, Yale Club of New Haven Scholarship
- 2011-2014, Social Science History Association Tilly Travel Award
- 2012-2013, University Dissertation Fellowship, Yale University

2012, Dissertation Advancement Grant, Department of Sociology, Yale University  
2008-2012, Graduate School of Arts and Sciences Fellowship, Yale University  
2011, George M. Camp Ph.D. Grant, Department of Sociology, Yale University  
2010, American Sociological Association Travel Award Grant supported by the National Science Foundation  
2002, Community Service Award, School of Public Policy and Public Administration, The George Washington University  
2002, Distinguished Graduate Teaching Assistant Award (Finalist), The George Washington University  
1996-2000, Presidential Academic Scholarship, The George Washington University  
1998-2000, Mary Ellen Caplin Scholarship, The George Washington University  
1998, Excellence in Peer Leadership Award, The George Washington University

## **INVITED TALKS**

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Barriers to Integration: How does the Built Environment of Cities Facilitate the Persistence of Residential Segregation in the U.S.?

2017, Santa Fe Institute, Postdocs in Complexity Conference, July 12

Barriers to Integration: Institutionalized Boundaries and the Spatial Structure of Residential Segregation

2017, Princeton University, Princeton-Mellon Initiative Urban Futures Colloquium, April 21

2016, Princeton University, Quantitative Social Science Colloquium, December 9 (with Jackelyn Hwang)

The Boundaries of Spatial Inequality: Three Essays on the Measurement and Analysis of Residential Segregation

2017, Yale University, Marvin B. Sussman Dissertation Award Lecture, April 18

Panel on Data and Methodological Issues

2016, Brown University, Population Studies and Training Center, Workshop on Urban Inequality: Longitudinal, Multilevel, and Spatial Approaches, November 11

The Spatial Context of Residential Segregation

2016, Texas A&M and Rice University, Innovations in the Measurement and Analysis of Racial Segregation, September 16 (Featured Speaker)

The Divergence Index: A New Measure of Inequality and Segregation

2016, Texas A&M and Rice University, Innovations in the Measurement and Analysis of Racial Segregation, September 16 (Featured Speaker)

The Local Dynamics of Residential Segregation and Violent Crime

2016, The Rockwool Foundation (Copenhagen, Denmark), June 7

The Other Side of the Tracks: Spatial Boundaries and Residential Segregation in U.S. Cities

2016, Princeton University, Postdoctoral Seminar Series, May 19

Closer to Guns, Closer to Crime: The Role of Street Gangs in Facilitating Access to Illegal Guns

2016, Russell Sage Foundation, The Underground Gun Market: Implications for Regulation and Enforcement, April 29 (with Andrew V. Papachristos and Anthony A. Braga)

Spatial Boundaries and the Local Context of Residential Segregation

2016, Penn State University, Population Research Institute, April 12

2016, Princeton University, Department of Sociology, February 15

2015, Columbia University, Networks and Time Workshop, September 24

2015, Santa Fe Institute, July 1

2014, Princeton University, Theorodology Workshop, December 4

The Resolution of Residential Segregation in U.S. Cities

2014, Fairfield University, Sociology Department, April 29

## PRESENTATIONS

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- The Divergence Index: A Decomposable Measure of Segregation and Inequality  
 2017, American Sociological Association Annual Meeting  
 2017, Meeting of the International Sociological Association Research Committee on Social Stratification and Mobility (RC28)  
 2017, Annual Meeting of the International Network of Analytic Sociologists  
 2016, Princeton University, Theorodology Workshop  
 2015, ASA Methodology Section Mid-Year Meeting
- The Other Side of the Tracks: Measuring the Impact of Spatial Boundaries on Residential Segregation  
 2017, Population Association of America Annual Meeting  
 2017, ASA Methodology Section Mid-Year Meeting
- Barriers to Integration: Institutionalized Boundaries and the Spatial Structure of Residential Segregation  
 2017, Population Association of America Annual Meeting (with Jackelyn Hwang)  
 2016, American Sociological Association Annual Meeting (with Jackelyn Hwang)
- Urban Transformations and the Changing Structure of Segregation in the 21st Century  
 2017, American Sociological Association Annual Meeting (with Jackelyn Hwang and Jacob Rugh)  
 2017, Population Association of America Annual Meeting (with Jackelyn Hwang and Jacob Rugh)
- Spatial Boundaries and the Local Context of Residential Segregation  
 2015, Annual Meeting of the Social Science History Association  
 2015, American Sociological Association Annual Meeting  
 2015, Annual Meeting of the International Network of Analytic Sociologists  
 2015, Population Association of America Annual Meeting
- The Spatial Context of Residential Segregation  
 2016, American Sociological Association Annual Meeting  
 2014, American Sociological Association Annual Meeting
- The Local Dynamics of Residential Segregation and Violent Crime  
 2016, Annual Meeting of the Social Science History Association  
 2016, Population Association of America Annual Meeting
- Deference, Defiance, and the Dynamics of Status Hierarchies  
 2016, Annual Meeting of the International Network of Analytic Sociologists
- The Resolution of Residential Segregation in U.S. Cities  
 2014, American Sociological Association Annual Meeting  
 2013, Annual Meeting of the Social Science History Association
- A Counterfactual Geography of Spatial Boundaries and Residential Segregation  
 2014, Annual Meeting of the Social Science History Association
- Generations of Change: A Historical Geography of New Haven, CT  
 2013, American Sociological Association Annual Meeting  
 2013, Center for Comparative Research Graduate Student Conference, Yale University  
 2012, Yale University Center for Comparative Research Workshop  
 2011, Annual Meeting of the Social Science History Association  
 2011, Frontiers of Comparative Sociological Research Conference, Yale University
- The Emergence of Status Hierarchies: An Agent-Based Replication of Gould's Formal Model  
 2011, Santa Fe Institute Graduate Workshop in Computational Social Science Modeling and Complexity  
 2009, Applied Social Research Workshop, Yale University
- The Interaction of Individual Preferences and Economic Differentials in the Generation of Racial Segregation: An Agent-Based Model  
 2011, Population Association of America Annual Meeting  
 2011, Annual Meeting of the Eastern Sociological Society

2010, International Sociological Association World Congress in Gothenburg, Sweden  
2010, Center for Research on Inequality and the Life Course Workshop, Yale University

## **TEACHING EXPERIENCE**

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2017-2018, Lecturer, Department of Sociology, Princeton University  
Simulating Social Processes: An Introduction to Agent Based Modeling in the Social Sciences (Fall 2017)  
Spatial Analysis (Spring 2018)

2012-2015, Workshop Instructor, Yale University, Center for Science and Social Science Information.  
Designed and taught computing and data analysis workshops including:  
Introduction to R (February 2012, October 2014, February 2014, September 2013)  
Intermediate R (October 2012)  
Advanced R (March 2015, November 2013)  
GIS for the Social Sciences (April 2013, October 2014)  
Introduction to Spatial Analysis in R (April 2014)  
Data Visualization (November 2013)  
Data Visualization in R (April 2015, November 2014, November 2012)  
Introduction to High Performance Computing at Yale (March 2014)  
Writing Papers with Data (March 2013)  
Introduction to SAS (April 2012)

2014, Instructor, Yale University  
Introduction to Agent Based Modeling, a one-day workshop sponsored by the Center for Research on Inequality and the Life Course (March 2014)

2012, Instructor, Yale University, Associates in Teaching Program (co-taught with Richard Breen)  
Simulating Social Processes: An Introduction to Agent Based Modeling in the Social Sciences (Spring 2012)

2011-2013, Teaching Fellow, Yale University  
Methods of Inquiry, Sociology (Fall 2011, Fall 2012)  
Survey Methods, Sociology (Spring 2012)  
Applied Quantitative Analysis, Global Affairs (Fall 2013)

2001-2002, Lab Instructor, The George Washington University  
Research Methods and Applied Statistics, Public Administration (Fall 2001, Spring 2002)  
Public Budgeting, Revenue & Expenditures, Public Administration (Spring 2002)

## **PROFESSIONAL RESEARCH EXPERIENCE**

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2012-2015, Research Consultant, Center for Science and Social Science Information, Yale University

2002-2008, Presidential Management Fellow and Research Analyst (GS-13), Bureau of Transportation Statistics, U.S. Department of Transportation, Washington, DC  
Completed the following professional development appointments:  
2004, U.S. Government Accountability Office (GAO), Physical Infrastructure Team  
2003, The Brookings Institution, Metropolitan Policy Program

2001-2002, Research and Evaluation Consultant  
The Ethics Resource Center (2002); The Public Education Network (2001-2002); DC VOICE (2001); Join Hands Day, Inc. (2000-2001)

## **PROFESSIONAL & SERVICE ACTIVITIES**

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**Board Member:** International Network of Analytic Sociologists (2015-present),

Urban Science (Editorial Board: 2017-present),  
International Sociological Association Research Committee on Rational Choice (2010-2014)

**Reviewer:** American Journal of Sociology (2017), Demography (2012, 2014, 2016), Urban Studies (2016),  
Social Science Research (2014, 2015), Socius (2015), Social Science and Medicine (2013, 2014)

**Professional Service:**

Session Organizer, Residential Segregation, 2018 Population Association of America Annual Meeting;  
Contributor, Workshop on Multidisciplinary Complex Systems Research, National Science Foundation,  
May 2017;

Collaborator, Workshop on Urban Signatures of Socio-Ecological Innovation, The National Socio-  
Environmental Synthesis Center (SESYNC), University of Maryland, October 2015;

Discussant, Urbanization and Urban Change, 2015 Population Association of America Annual Meeting;  
Discussant, Social Networks, 2015 American Sociological Association Annual Meeting

**Professional Affiliations:** American Sociological Association; Population Association of America, Social  
Science History Association, International Sociological Association

**University Service:** Staff Fellow, Mathey College, Princeton University (2015-present); Graduate Affiliate,  
Branford College, Yale University (2008-2012); Graduate Student Representative to the Board of Trustees,  
Saint Thomas More Chapel and Center at Yale University (2010-2011); Joint Committee of Faculty and  
Students, The George Washington University (1998-2000)

**Community Involvement:**

Contributed research to “Report on Zoning of Westchester Municipalities and the Perpetuation of  
Segregation and Creation of Disparate Impact” filed May 2016 by Andrew Beveridge;

Center for Housing Policy Project Advisory Group (A Heavy Load: The Combined Housing and  
Transportation Burdens of Working Families);

Meet the Faces of Public Service, The Partnership for Public Service and George Washington University;  
Human Services Program Annual Alumni Career Panel, George Washington University;

Volunteer for non-profit organizations in New Haven, CT and Washington, DC, including: Saint Thomas  
More Soup Kitchen (2009-2015), Bread for the City (2007-2008), Mary House (2001-2005), Simply Smiles  
(2003), Hands On DC (2002-2003)

## REFERENCES

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Richard Breen

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Nuffield College, Oxford  
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Andrew V. Papachristos

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Miguel A. Centeno

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Sociology and International Affairs  
Department of Sociology, Princeton University  
Phone: 609-258-4452  
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Scott Page

Leonid Hurwicz Collegiate Professor of  
Complex Systems, Political Science, and  
Economics  
Center for the Study of Complex Systems,  
University of Michigan  
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Julia P. Adams

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Department of Sociology, Yale University  
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