

# Robert Manduca

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## Education

Ph.D. in Sociology and Social Policy, Harvard University (2014–Present)

Dissertation: *Social Structure, Space, and the Dynamics of Income Inequality*

Committee: Jason Beckfield, Robert J. Sampson (Chair), Mario Small

Research Interests: Regional development, economic inequality, urban sociology, domestic migration, neighborhood effects, spatial analysis, computational methods, decision-making in social contexts

M.C.P., Massachusetts Institute of Technology (2012–2014)

B.A. with High Honors in Economics, Swarthmore College (2006–2010)

## Employment

Fellow, Data Science for Social Good, Summer 2014

Associate, Charles River Associates, 2010-2012

## Publications

Small, M., **Manduca, R.**, & Johnston, W. Ethnography, Neighborhood Effects, and the Rising Heterogeneity of Poor Neighborhoods. Forthcoming, *City and Community*.

**Manduca, R.** 2018. Income Inequality and the Persistence of Racial Economic Disparities. *Sociological Science* 5:182-205.

· Media coverage: *Pacific Standard*, *Washington Post*.

Folch, D., Spielman, S., & **Manduca, R.** 2018. Fast Food Data: Where User-Generated Content Works and Where it Does Not. *Geographical Analysis* 50(2): 125-140.

Chetty, R., Grusky, D., Hell, M., Hendren, N., **Manduca, R.**, & Narang, J. (2017). The Fading American Dream: Trends in Absolute Income Mobility Since 1940. *Science* 356(6336):398-406.

· Media coverage: *New York Times*, *Wall Street Journal*, *Washington Post*, *LA Times*, *FiveThirtyEight*, *NPR*, *The Atlantic*, *Pacific Standard*, *Forbes*, *Vox*, *National Review*.

Green, B., Caro, A., Conway, M., **Manduca, R.**, Plagge, T., & Miller, A. (2015). Mining Administrative Data to Spur Urban Revitalization. In *Proceedings of the 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining* (pp. 1829-1838) New York: ACM Press.

## Working Papers

**Manduca, R.** The Contribution of National Income Inequality to Regional Economic Divergence.

· Winner, North American Regional Science Council 2017 Graduate Student Paper Award.

**Manduca, R.** Formative and Facilitative Information as Mechanisms of Human Capital Concentration.

**Manduca, R.** The Spatial Structure of US Metropolitan Employment: New Insights from LODES Data.

- Winner, Western Regional Science Association 2018 Tiebout Prize for Best Graduate Student Paper.
- Media coverage (for associated *Where Are the Jobs?* visualization): *Washington Post*, *CityLab*, *Vox*, *Fast Company*, *Curbed SF*.

Feigenbaum, J., Hell, M., **Manduca, R.**, & Narang, J. The American Dream in the Great Depression: US Absolute Income Mobility, 1915-1940.

## In Preparation

Fritz, B. & **Manduca, R.** The Economic Complexity of US Metropolitan Areas.

**Manduca, R.** Economic Capacity, Economic Access, and the Meaning of Development.

Hell, M., **Manduca, R.**, Bolotnyy, V., Bratberg, E., Munk, M., Ostrovsky, Y., Schnitzlein, D. & Sirnio, O. Absolute Income Mobility in Developed Countries, 1960-2015.

## Invited Presentations

Brown University Spatial Structures in the Social Sciences Seminar. "Characterizing the Spatial Structure of US Metropolitan Employment using LODES Data." April 2018.

University of Chicago Center for Spatial Data Science Workshop. "Identification of Business Districts Using LODES Data." January 2018.

CARTO Spatial Data Science Conference 2017, New York, NY. "Identifying and Categorizing Business Districts using Census LODES Data." December 2017.

Guest lecture, MIT course 11.407: Tools and Techniques for Economic Development. "An Introduction to LEHD Data Tools." November 2017.

National Conference of State Legislatures 2017 Annual Summit, Boston, MA. "Economic Mobility and the American Dream." August 2017.

Cornell University Sociology Graduate Student Association Seminar, Ithaca, NY. "US Regional Inequality and the Migration Decisions of College Graduates." March 2017.

Census Local Employment Dynamics Webinar. "The Spatial Structure of American Employment." February 2016.

## Conference Presentations

### 2018

Mechanism Design for Social Good workshop, 19th ACM Conference on Economics and Computation, Cornell University. "Mechanism Design and Marginal Distributions."

Western Regional Science Association 2018 Annual Meeting, Pasadena, CA. "The Spatial Structure of US Metropolitan Employment: New Insights from LODES Data."

### 2017

North American Regional Science Council 2017 Annual Meeting, Vancouver, BC. "Income Inequality and Regional Economic Divergence."

Harvard University Contemporary Studies of Race and Ethnicity Workshop. "Income Concentration and the Persistent Black-White Earnings Gap."

Association of American Geographers 2017 Annual Meeting, Boston, MA. "The Spatial Structure of US Metropolitan Employment."

Harvard University Migration and Immigrant Incorporation Workshop. "Formative and Facilitative Information as Mechanisms of Human Capital Concentration."

## 2016

North American Regional Science Council 2016 Annual Meeting, Minneapolis, MN. "Amenities and Employment in the Migration Decisions of Recent College Graduates."

North American Regional Science Council 2016 Annual Meeting, Minneapolis, MN. "The Spatial Structure of US Employment."

Inequality and Decision-Making: A Tobin Project Conference, Cambridge, MA. "Income Inequality, Consumption, and Structural Change."

Society for the Advancement of Socio-Economics 2016 Annual Meeting, University of California, Berkeley. "Income Inequality, Consumption, and Structural Change."

## 2015

Migrants in the City: New Dynamics of Migration in Urban Settings, University of Sheffield. "Domestic Migration Networks in the United States."

Census Local Employment Dynamics Partnership 2015 Annual Workshop, Washington DC. "The Spatial Structure of American Employment."

International Network of Analytic Sociologists 2015 Annual Meeting, Harvard University. "Heterogeneity in Activity Space Segregation in the United States."

2015 Computational Social Science Summit, Northwestern University. "Status, Diversity, and Team Performance in a Cultural Market."

## Grants & Fellowships

**Harvard Center for American Political Studies**, Graduate Seed Grant for "Income Inequality and Regional Economic Divergence" (2017). \$500.

**Russell Sage Foundation**, Intergenerational Mobility in the United States award for "The American Dream in the Great Depression: Absolute Income Mobility in the United States, 1915-1940." With Maximilian Hell, James Feigenbaum, and Jimmy Narang (2017). \$20,000.

**Doctoral Fellow**, Harvard Multidisciplinary Program in Inequality & Social Policy (2015-2017)

## Honors & Awards

Presidential Scholar, Harvard University (2014)

American Institute of Certified Planners Outstanding Student Award (2014)

Phi Beta Kappa (2010)

National Hispanic Recognition Scholar (2006)

National Merit Scholar (2006)

## Professional Activities

Reviewer, *American Journal of Sociology*, *City and Community*, *DuBois Review*, *Regional Studies*, *Science*, *Sociological Methods and Research*

Coordinator, Harvard Quantitative Sociology Workshop (2015-2016)

## Teaching

Introduction to Social Inequality (Teaching Fellow), Harvard Department of Sociology, Spring 2017

Models of Social Science Research (Teaching Fellow), Harvard Department of Sociology, Fall 2016

Last updated: June 23, 2018