Political Science 344
Politics and Geography
Winter 2017-18

Tuesdays and Thursdays, 3 PM-4:30 PM
Spatial Social Science Lab, Encina Hall 111
Instructors:
Jonathan Rodden (jrodden@stanford.edu), office hours Tuesdays, 4:30 PM – 6 PM.
Clayton Nall (nall@stanford.edu), office hours by appt at http://meetme.so/nall.

This course introduces students to basic techniques for the exploration of political and economic geography while covering a range of substantive themes. Students will learn to produce and analyze maps and learn the basics of spatial data analysis, and apply these skills to a range of questions at the intersection of political and economic geography.

This course begins with a brisk overview of attempts to answer some of the basic questions of economic geography and urban economics. What explains the spatial location of workers, firms, and economic activity? What explains the rise (and fall) of cities, suburbs, and residential segregation around the world? Can we draw any general conclusions about the spatial location of income groups? Do neighborhoods and social networks have an impact on behavior and social outcomes?

We start with these questions in part because they have a variety of potential political consequences for political science. We explore geographic underpinnings of sectionalism, regionalism, and political polarization, examine the geography of political preferences and voting behavior, and explore the ways in which the geographic distribution of preferences interacts with electoral institutions, focusing in particular on implications for redistribution and the welfare state. We also address a variety of questions about borders, conflict, and historical legacies.

Throughout the course, we focus on geography and challenges of causal inference. This is a specialized course for graduate students whose research interests touch upon political geography. Students will become familiar with ArcGIS and several tools in R. Classroom time will be split between discussions of the substantive readings and building tools of spatial analysis, and students will work individually and in groups with the software and tutorials. While we cover most of the basics that will be useful to political scientists, students interested in a full-fledged spatial statistics course will want to consider Statistics 253 and 352.

Students will work on labs (usually in groups) each week and participate in class discussions. Students will write a short reading response and write a final paper

(around 20 pages). Progress on a serious paper using spatial tools is a central component of the course. Students should decide upon a topic by the middle of the quarter, and reports on the final paper will be given throughout the second half of the quarter.

During the first week, each student will choose a (substantive) session for which he or she will write a 3-5 page reading response essay. Two or three pages will address broad issues raised by the papers, and 1-2 pages will go into detail on a single paper. The reading response essay will be circulated to classmates by 9 PM on **Sunday night.** All other students will come to class on Tuesday prepared to go into greater depth on the paper(s) selected by the student(s), and class discussion will be structured in part on the issues raised in the response essays. Students should be prepared to take an especially active role in leading discussions during the week they have selected.

The final grade will be calculated as follows:

Reading response:	20%
Participation grade:	20%
Presentation:	10%
Final paper:	50%

Students with Documented Disabilities: Students who may need an academic accommodation based on the impact of a disability must initiate the request with the Office of Accessible Education (OAE). Professional staff will evaluate the request with required documentation, recommend reasonable accommodations, and prepare an Accommodation Letter for faculty dated in the current quarter in which the request is made. Students should contact the OAE as soon as possible since timely notice is needed to coordinate accommodations. The OAE is located at 563 Salvatierra Walk (phone: 723-1066, URL: http://studentaffairs.stanford.edu/oae).

Week 1

January 9: Course Introduction

- Harvey J. Miller. 2004. "Tobler's First Law and Spatial Analysis." *Annals of the Association of American Geographers* 94 (2): 284-289.

- Claudia Engel. 2015. *Spatial Approaches to Social Science*, chapters 2-3.

In-class lab: Introduction to GIS (ArcMap)

January 11: Representing the Earth's Surface

- Claudia Engel. 2015. *Spatial Approaches to Social Science*, chapter 4.

In-class lab: Projections (ArcMap)

Week 2

January 16: Geography, Trade and Agglomeration

- Paul Krugman. 1991. *Geography and Trade*. MIT Press.

- Enrico Moretti. 2013. *The New Geography of Jobs*. Mariner. Introduction and Chapters 1-3.

- Stuart Rosenthal and William Strange. 2004. "Evidence on the Nature and Sources of Agglomeration Economies." In J.V. Henderson and J.F. Thisse (eds.), *Handbook of Regional and Urban Economics*, vol. 4. Elsevier. Pages 2132 – 2162.

- William Cronon. 1992. *Nature's Metropolis*. New York: W.W. Norton. Chs. 1, 2, and 6.

- Jonathan Rodden. 2018. *Why Cities Lose*. Chapters 3 and 4.

Further recommended background reading

- V. Gordon Childe. 1950. "The Urban Revolution." In Richard LeGates and Frederic Stout, eds.,2000. *The City Reader*, pp. 22-30.

- Henri Pirenne. 1925. "City Origins" and "Cities and European Civilization." In *The City Reader*, pp. 38-45.

- Glenn Ellison and Edward Glaeser. 1997. "Geographic Concentration in U.S. Manufacturing Industries: A Dartboard Approach." *Journal of Political Economy* 105(5): 889-927.

- Sukkoo Kim and Robert Margo. 2004. "Historical Perspectives on U.S. Economic Geography." In J.V. Henderson and J.F. Thisse (eds.), *Handbook of Regional and Urban Economics*, vol. 4. Elsevier.

January 18: Introduction to spatial data in R

In-class lab: Learn how both vector and raster data are represented in R, how to import and export data from other programs, and associate tabular data with spatial objects.

Week 3

January 23: Cities and Urban Form

- Alex Anas, Richard Arnott, and Kenneth Small. 1998. "Urban Spatial Structure." *Journal of Economic Literature* 36(3): 1426-64.

- Edward Glaeser, Joseph Gyourko, and Raven Saks. 2005. "Urban Decline and Durable Housing." *Journal of Political Economy* 115(2): 346-375.

- Peter Mieszkowski, Peter and Edwin Mills. 1993. "The Causes of Metropolitan Suburbanization." *The Journal of Economic Perspectives* 7(3):135-147.

- Jonathan Rodden. 2018. *Why Cities Lose*. Chapter 5.

- Wouter P.C. van Gent, Elmar Jansen, and Joost Smits. 2014. "Right-wing Radical Populism in City and Suburbs: An Electoral Geography of the Partij Voor Vriheid in the Netherlands." *Urban Studies* 51, 9: 1775-1794.

- Nall, *The Road to Inequality*, Chs 1-3.

Recommended

- Alberto Ades and Edward Glaeser. 1995. "Trade and Circuses: Explaining Urban Giants." *Quarterly Journal of Economics* 110(1): 195-227.

- Paul Hohenberg. 2004. "The Historical Geography of European Cities: An Interpretive Essay." In J.V. Henderson and J.F. Thisse (eds.), *Handbook of Regional and Urban Economics*, vol. 4. Elsevier.

- Edward Glaeser, Matthew Kahn, and Jordan Rappaport. 2007. "Why do the Poor Live in Cities? The Role of Public Transportation." *Journal of Urban Economics* 63: 1-24.

January 25: Basic Spatial Operations in R

In-class lab: Learn to manipulate projections and coordinate systems in R, merge outside data sources with spatial objects based on variable identifiers, and to execute different forms of spatial merges.

Week 4

January 30: Segregation, Sorting, and Public Goods

- Douglas Massey and Nancy Denton. 1988. "The Dimensions of Residential Segregation." *Social Forces* 67 (2): 281-315.

- Sean Reardon. 2004. "Measures of Spatial Segregation." *Sociological Methodology* 34: 121-162.

- Thomas Schelling. 1971. "Dynamic Models of Segregation." *Journal of Mathematical Sociology* 1: 143-186.

- David M. Cutler and Edward Glaeser and Jacob L. Vigdor. 2004. "The Rise and Decline of the American Ghetto." *Journal of Political Economy*. 107 (3): 455-504.

- Clayton Nall and Jonathan Mummolo. 2016. "Why Partisans Do Not Sort: The Constraints on Political Segregation." *Journal of Politics* 79(1): 45-59.

- Simon Ejdemyr, Eric Kramon, and Amanda Lea Robinson. 2017. "Segregation, Ethnic Favoritism, and the Strategic Targeting of Public Goods." In Press, *Comparative Political Studies.*

- Jessica Trounstine. 2015. "Segregation and Inequality in Public Goods" *American Journal of Political Science* 60(3): 709-725.

Recommended

- Sean Reardon and Kendra Bischoff. 2011. "Growth in the Residential Segregation of Families by Income, 1970-2009."

February 1: Making maps

In-class lab: Making maps in R. How to visualize your spatial data.

In-class lab: Making maps in ArcGIS

- Claudia Engel. 2015. *Spatial Approaches to Social Science*, chapter 6

Week 5

February 6: Neighborhood and Contextual Effects

- Chetty, Raj and Nathaniel Hendren. 2017. "The Impacts of Neighborhoods on Intergenerational Mobility: Childhood Exposure Effects. NBER paper.

- Hopkins, Daniel J., Politicized Places: Explaining Where and When Immigrants Provoke Local Opposition. 2010. *American Political Science Review,* Vol. 104, No. 1, pp. 40-60, 2010.

- Ryan Enos. 2017. *The Space Between Us: Social Geography and Politics*. Cambridge University Press. Chapters 1-6.

- Hersh, Eitan and Clayton Nall. 2016. The Primary of Race in the Geography of Income-Based Voting: New Evidence from Public Voting Records. *American Journal of Political Science* 60(2): 289-303.

Further recommended background reading:

- Steven Durlauf. 2004. "Neighborhood Effects." In J.V. Henderson and J.F. Thisse (eds.), *Handbook of Regional and Urban Economics*, vol. 4. Elsevier.

- Ron Johnston & Charles Pattie. 2006. *Putting Voters in their Place.* Oxford UP. Chapters 2-4, and 7. [E-book, SULAIR]

- Chetty, Raj, Nathaniel Hendren, and Lawrence Katz. 2016. "New Effects of Exposure to Better Neighborhoods on Children: New Evidence from the Moving to Opportunity Experiment." *American Economic Review* 106(4): 855-902.

- Aina Gallego, Franz Buscha, Patrick Sturgis and Daniel Oberski. 2016. "Places and Preferences: A Longitudinal Analysis of Self-Selection and Contextual Effects." *British Journal of Political Science* 46,3: 529-550.

- Rueda, David and Daniel Stegmueller. 2016. "The Externalities of Inequality: Fear of Crime and Preferences for Redistribution in Western Europe." *American Journal of Political Science* 60,2: 472-489.

February 8: Address geocoding

In-class lab: Using R to access data from web servers using various API interfaces and formats. Also learn to convert large numbers of addresses into GPS coordinates.

Claudia Engel. 2015. *Spatial Approaches to Social Science*, chapter 5.

Week 6

February 13: Geography and Social Networks

- Eubank, Nicholas. 2015. "Ethnicity and Social Network Structure." *Working Paper.*

- Ratti, Carlo, Stanislav Sobolevsky, Francisco Calabrese, Clio Andris, Jonathan Reades, Mauro Marino, Rob Claxton, and Steven Strogatz. "Redrawing the Map of Great Britain from a Network of Human Interactions." 2010. *PLoS ONE* 5:12.

- Hipp, John, Robert Faris, Adam Boessen. "Measuring 'neighborhood': Constructing network neighborhoods" 2012. *Social Networks* 34:1.

- Adams, Jimi, Katherine Faust, and Gina Lovasi. 2012. "Capturing Context: Integrating Spatial and Social Network Analysis." *Social Networks* 34: 1-5.

- Nall, Clayton, Dan Carpenter, and Benjamin Schneer. 2017. "Paths of Recruitment: Rational Prospecting in Petition Canvassing." *American Journal of Political Science*, forthcoming.

- Wong et al, "Maps in People's Heads: Assessing a New Measure of Context." http://carawong.org/Papers/MeasurementCanada.pdf

- Guadalupe Rojo, Subhash Jha, and Erik Wibbels. "Political Networks, Clientelism and Public Goods: Evidence from Slums in Udaipur, India." Working paper, Duke University.

Optional Lab: iGraph library in R.

February 15: Raster data, land cover, and remote sensing

In-class lab: An in-depth look at working with raster data, raster-vector data joins, and working with multi-band data.

Claudia Engel. 2015. *Spatial Approaches to Social Science*, chapter 8-9

Week 7

February 20: Spatial dependence and spatial regressions

- D. O'Sullivan and D. Unwin. 2010. *Geographic Information Analysis*, 2nd ed., Wiley and Sons. Chapters 4-5, 7-8.

- Michael Ward and Kristian Skrede Gleditsch. 2008. *Spatial Regression Models*. Sage. 2018. [Forthcoming]

- Luc Anselin. 2002. "Under the hood. Issues in the specification and interpretation of spatial regression models." *Agricultural Economics* 27:24767.

February 22: In-class progress report on research

Come to class with a map and/or other geo-spatial analysis related to your research interests. Include a short write-up of what you learned (2-4 pages). Be prepared to spend 10 minutes presenting your work.

Week 8

February 27: Geography, political preferences, and representation

- Jonathan Rodden. 2018. *Why Cities Lose*, Chapters 1, 2, 6-8.

- Clayton Nall. 2017. *The Road to Inequality*. Chapters 4-6.

- Karen Long Jusko. 2017. *Who Speaks for the Poor? Electoral Geography, Party Entry, and Representation*. Cambridge University Press. Chapters 1, 2, 6-8.

March 1: Borders, geography, and causal inference

- Hein Goemans and Kenneth Schultz. 2015. The Politics of Territorial Claims: A Geospatial Approach Applied to Africa. Unpublished paper, Stanford University.

- Alexander Lee and Kenneth Schultz. 2012. "Comparing British and French Colonial Legacies: A Discontinuity Analysis of Cameroon." *Quarterly Journal of Political Science* 7: 365-410.

- Luke Keele and Rocio Titiunik. 2014. "Geographic Boundaries as Regression Discontinuities." *Political Analysis* 23: 127-155.

- Yanagizawa-Drott, David. 2014. "Propaganda and Conflict: Evidence from the Rwandan Genocide." *Quarterly Journal of Economics* 129(4): 1947-1994.

Recommended

- Luke Keele and Rio Titiunik. 2015. "Natural Experiments Based on Geography." *Political Science Research and Methods* forthcoming.

Take-home Lab: Digital elevation models, least cost path analysis

Week 9

March 6: Geography and Historical Legacies

- Stanley Engerman and Kenneth Sokoloff. 1997. "Factor Endowments, Institutions, and Differential Paths of Growth Among New World Economies." In Stephen Haber, ed., *How Latin America Fell Behind*, pp. 260-302

- Roy Elis, Stephen Haber, and Jordan Horrillo. 2017. "The Ecological Origins of Economic and Political Systems." Unpublished paper.

- Avidit Acharya, Matthew Blackwell, and Maya Sen. 2016. "The Political Legacy of American Slavery." Journal of Politics 78(3): 621-41.

- Nathan Nunn and Leonard Wantchekon. 2011. "The Slave Trade and the Origins of Mistrust in Africa." *American Economic Review* 107(7): 3221-52.

Recommended:

- Melissa Dell. "The Persistent Effects of Peru's Mining *Mita*." *Econometrica* 78, 6 (2010): 1863-1903.

- Saumitra Jha. 2013. "Trade, Institutions and Ethnic Tolerance: Evidence from South Asia." *American Political Science Review* 107:4.

March 8: Digitizing Historical Maps

In-class lab using ArcGIS.

Week 10

March 13: Presentations

March 15: Presentations