

## Syllabus

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**Course: Urban Economics**

**Professor: Daniel Da Mata**

### 2022 FIRST SEMESTER

#### COURSE OUTLINE

This course explores theoretically and empirically a range of topics related to the economics of cities. The course begins with a discussion of the modeling and estimation of agglomeration economies. It also discusses models of housing markets and housing policy, with a focus on topics that are relevant to the urbanization of developing countries, such as the understanding of the causes and consequences of slums. Additional themes covered in the course are local labor markets and place-based policies. The course will discuss how urban economics relates to other areas, such as public, environmental, macro, development, labor and regional economics.

#### METHODOLOGY

The course is intended to prepare students to do applied research in several topics in urban economics. Half of the course discusses structural empirical applications, while the other half is dedicated to reduced-form empirical applications.

#### PROGRAM

Topics	Class
Empirical Methods in Urban Economics	1
Agglomeration: Theory	2,3
Agglomeration: Empirics	3,4
Local Labor Markets	5,6
Slums	7,8
Housing Policies	9,10, 11
Place-based Policies	12, 13,14
Housing, Consumption and Macroeconomics	(extra)
Land Use Regulation	(extra)
Transportation	(extra)
Cities and the Environment	(extra)

## BIBLIOGRAPHY

\* = *main papers*

### I. Empirical Methods in Urban Economics

\*Baum-Snow, Nathaniel, and Fernando Ferreira, 2015. "Causal Inference in Urban and Regional Economics" in *Handbook of Regional and Urban Economics* Volume 5, Edited by Gilles Duranton, J. Vernon Henderson and William C. Strange.

\*Holmes, Thomas J., and Sieg, Holger, 2015. "Structural Estimation in Urban Economics" in *Handbook of Regional and Urban Economics* Volume 5, Edited by Gilles Duranton, J. Vernon Henderson and William C. Strange.

### II. Agglomeration: Theory

\*Ahlfeldt Gabriel M, Stephen J. Redding, Daniel M. Sturm and Nikolaus Wolf, 2015. "The Economics of Density: Evidence from the Berlin Wall". *Econometrica*, 83 (6): 2127–2189.

Duranton, Gilles and Diego Puga, 2004. "Micro-foundations of Urban Agglomeration Economies". In Vernon Henderson and Jacques-François Thisse (eds.) *Handbook of Regional and Urban Economics*, v.4.

\*Duranton, Gilles, and Diego Puga. 2020. "The Economics of Urban Density." *Journal of Economic Perspectives*, 34 (3): 3-26.

Rosenthal, Stuart and William Strange, 2004. "Evidence on the Nature and Sources of Agglomeration Economies" In Vernon Henderson and Jacques-François Thisse (eds.) *Handbook of Regional and Urban Economics*, volume 4.

Redding, Stephen J. and Rossi-Hansberg, E., 2017, "Quantitative Spatial Economics," *Annual Review of Economics*.

### III. Agglomeration: Empirics

Arzaghi Mohammad, and J. Vernon Henderson. 2008. "Networking off Madison Avenue." *Review of Economic Studies* 75(4), 1011-1038.

Baum-Snow, Nathaniel and Ronni Pavan. 2012. "Understanding the City Size Wage Gap." *Review of Economic Studies*, 2012, 79(1): 88-127.

Caliendo, Lorenzo, Parro, F., Rossi-Hansberg, E. and Sarte, P, 2018. "The Impact of Regional and Sectoral Productivity Changes on the U.S. Economy" *Review of Economic Studies*, Forthcoming.

Combes, Pierre- Philippe and Laurent Gobillon. 2015. "The empirics of agglomeration economics". In Gilles Duranton, J. Vernon Henderson, and William C. Strange (eds.) *Handbook of Regional and Urban Economics*, volume 5.

Combes, Pierre- Philippe, Gilles Duranton, Laurent Gobillon, Diego Puga and Sébastien Roux. 2012. "The Productivity Advantages of Large Cities: Distinguishing Agglomeration from Firm Selection." *Econometrica*, 80(6): 2543–2594.

\*Dauth W., E. Moretti, S. Findeisen and J. Suedekum, 2022. "Matching in Cities". *Journal of the European Economic Association*.

\*De la Roca, J. and D. Puga, 2017. "Learning by Working in Big Cities," *Review of Economic Studies*, 84(1): 106–142.

Ellison, Glaeser and Kerr, 2010. "What Causes Industry Agglomeration? Evidence from Co-agglomeration Patterns", *American Economic Review*, vol. 100(3): 1195-1213

Gaubert, Cecile, 2018. "Firm Sorting and Agglomeration". *American Economic Review*, vol. 108 (11): 3117-353.

\*Greenstone, Michael, Richard Hornbeck, and Enrico Moretti. 2010. "Identifying Agglomeration Spillovers: Evidence from Winners and Losers of Large Plants Openings." *Journal of Political Economy* 118(3):536–598.

Henderson, Vernon and Squires, Tim and Storeygard, Adam and Weil, David, 2018. "The global distribution of economic activity: nature, history, and the role of trade." *Quarterly Journal of Economics*,

133 (1). 357-406.

Holmes, Thomas J., 2011. "The Diffusion of Wal-Mart and Economies of Density." *Econometrica* 79(1): 253-302.

Holmes, Thomas J. and Sanghoon Lee. 2012. "Economies of density versus natural advantage: Crop choice on the Back Forty." *Review of Economics and Statistics* 94(1): 1-19.

Redding, Stephen J. and Daniel M. Sturm. 2008. "The Costs of Remoteness: Evidence from German Division and Reunification." *American Economic Review*, 98(5):1766–1797.

#### **IV. Local Labor Markets and Spatial Equilibrium**

Roback, Jennifer. 1982. "Wages, Rents and the Quality of Life." *Journal of Political Economy* 90(6):1257–1278. (classic paper)

Brueckner, J., 1987, "The Structure of Urban Equilibria: A Unified Treatment of the Muth-Mills Model," in E. S. Mills, ed., *Handbook of Regional and Urban Economics*, Volume 2. (classic handbook chapter)

Baum-Snow, N. and Pavan, R., 2011. "Understanding the City Size Wage Gap," *Review of Economic Studies*, 79(1): 88-127.

Baum-Snow, N. and Pavan, R., 2013. "Inequality and City Size," *Review of Economics and Statistics* 95(5): 1535-1548.

Boeri, T, Ichino, A., Moretti, E. and Posch, J., 2021. "Wage Equalization and Regional Misallocation: Evidence from Italian and German Provinces", *Journal of the European Economic Association*.

\*Diamond, Rebecca, 2016. "The Determinants and Welfare Implications of US Workers' Diverging Location Choices by Skill: 1980-2000," *American Economic Review*, 106(3): 479-524

Glaeser, Edward L. and Joshua D. Gottlieb. 2009. "The Wealth of Cities: Agglomeration Economies and Spatial Equilibrium in the United States." *Journal of Economic Literature* 47(4):983–1028.

\*Hsieh, C. and Moretti, E., 2019. "Housing Constraints and Spatial Misallocation," *American Economic Journal: Macroeconomics*, 11(2), 1-39.

Manning, A. and Petrongolo, B., 2017. "How local are labor markets? Evidence from a spatial job search model." *American Economic Review*, 107 (10), 2877–2907.

\*Moretti, Enrico. 2011. "Local labor markets." In Orley Ashenfelter and David Card (eds.) *Handbook of Labor Economics*, volume 4. Amsterdam: North-Holland. 1237-1313.

Moretti, Enrico, 2013. "Real Wage Inequality." *American Economic Journal: Applied Economics* 5(1): 65-103.

Notowidigdo, Matthew, 2020. "The Incidence of Local Labor Demand Shocks". *Journal of Labor Economics*.

## **V. Slums and Housing in Developing Countries**

Brueckner, J. K. and H. Selod, 2009. "A Theory of Urban Squatting and Land- Tenure Formalization in Developing Countries," *American Economic Journal: Economic Policy*, 1, 28–51.

\*Cavalcanti, T., Da Mata, D. and Santos M., 2019. "On the Determinants of Slum Formation". *The Economic Journal*.

\*Galiani, S., P. J. Gertler, R. Undurraga, R. Cooper, S. Martinez, and A. Ross. 2017. "Shelter from the Storm: Upgrading Housing Infrastructure in Latin American Slums," *Journal of Urban Economics*.

Henderson, Vernon and Venables, Anthony J. and Regan, Tanner and Samsonov, Ilia. 2016. "Building functional cities". *Science*, 352 (6288): 946.

\*Henderson, J. Vernon and Regan, Tanner and Venables, Anthony J., 2021. "Building the City: from slums to a modern metropolis". *Review of Economic Studies*.

Marx, B., T. Stoker, and T. Suri., 2013. "The Economics of Slums in the Developing World," *Journal of Economic Perspectives*, 27, 187–210.

## **VI. Housing Policy: Wealth and Neighborhoods Effects**

Alzua, M. L., Amendolagine, J., Cruces, G. and Greppi, C., 2016. "Housing Subsidies, Labor Supply and Household Welfare. Experimental Evidence from Argentina." Research department working papers,

CAF Development Bank of Latin America.

\*Barnhardt, S., Field, E. and Pande, R., 2017. "Moving to Opportunity or Isolation? Network Effects of a Randomized Housing Lottery in Urban India." *American Economic Journal: Applied Economics*, 9 (1), 1–32.

Bleakley, H. and Ferrie, J., 2016. "Shocking Behavior: Random Wealth in Antebellum Georgia and Human Capital across Generations." *The Quarterly Journal of Economics*, 131 (3), 1455–1495.

\*Chetty, R., Hendren, N. and Katz, L. F., 2016. "The Effects of Exposure to Better Neighborhoods on Children: New evidence from the Moving to Opportunity Experiment." *American Economic Review*, 106 (4), 855–902.

Chyn, Eric, 2018. "Moved to Opportunity: The long-run Effects of Public Housing Demolition on Children". *American Economic Review*, 108(10), 3028-56.

Franklin, Simon, 2019. "The demand for government housing: evidence from a lottery for 200,000 homes in Ethiopia," Mimeo, London School of Economics.

Jacob, B. A. and Ludwig, J., 2012. "The Effects of Housing Assistance on Labor Supply: Evidence from a Voucher Lottery." *American Economic Review*, 102 (1), 272–304.

Katz, L. F., Kling, J. R. and Liebman, J. B., 2001. "Moving to Opportunity in Boston: Early results of a Randomized Mobility Experiment." *The Quarterly Journal of Economics*, 116 (2), 607–654.

Ludwig, J., Duncan, G. J., Gennetian, L. A., Katz, L. F., Kessler, R. C., Kling, J. R. and Sanbonmatsu, L., 2012. "Neighborhood Effects on the Long-term Well-being of Low-income Adults." *Science*, 337 (6101), 1505–1510.

Ludwig, J., and Hirschfield, P., 2001. "Urban poverty and Juvenile Crime: Evidence from a Randomized Housing-mobility Experiment." *The Quarterly Journal of Economics*, 116 (2), 655–679.

Michaels, Guy, Dzhamilya Nigmatulina, Ferdinand Rauch, Tanner Regan, Neeraj Baruah, Amanda Dahlstrand-Rudin, 2019, "Planning Ahead for Better Neighborhoods: Long Run Evidence from Tanzania", Mimeo, London School of Economics.

Oreopoulos, P., 2003. "The Long-run Consequences of Living in a Poor Neighborhood." *The Quarterly*

*Journal of Economics*, 118 (4), 1533–1575.

\*Van Dijk, Winnie, 2019. “The socio-economic consequences of housing assistance”, Mimeo.

## **VII. Place-based Policies**

Busso, Matias, Jesse Gregory, and Patrick Kline, 2013. “Assessing the incidence and efficiency of a prominent place-based policy.” *American Economic Review*. 103(2): 897-947.

\*Criscuolo, Chiara, Ralf Martin, Henry Overman, and John Van Reenen, 2019. “Some causal effect of an industrial policy”, *American Economic Review* 109(1): 48-85.

Davis, Donald R., and David E. Weinstein. 2002. "Bones, Bombs, and Break Points: The Geography of Economic Activity." *American Economic Review*, 92(5): 1269--89.

\*Da Mata, D. and Resende, G., 2020. “Changing the climate for banking: The economic effects of credit in a climate-vulnerable area,” *Journal of Development Economics*, 146, 102459.

Duranton, G. and Venables, A., 2018. “Place-Based Policies for Development”, NBER WP No. 24562.

\*Kline, Patrick and Enrico Moretti, 2014. "Local Economic Development, Agglomeration economies and the Big Push: 100 years of evidence from the Tennessee Valley Authority," *Quarterly Journal of Economics*.

Rossi-Hansberg, Esteban, Pierre-Daniel Sarte, and Raymond Owens III., 2010. “Housing externalities.” *Journal of Political Economy* 118(3):485–535.

Shenoy, Ajay, 2018. “Regional development through Place-based Policies: Evidence from a Spatial Discontinuity,” *Journal of Development Economics*, 130: 173-189.

## **VIII. Housing, Consumption and Macroeconomics**

Agarwal, Sumit and Qian, Wenlan, 2017. “Access to Home Equity and Consumption: Evidence from a Policy Experiment”, *Review of Economics and Statistics*, 99(1) p.40-52.

Beraja, Martin, Fuster, Andreas, Hurst, Erik and Vavra, Joseph, 2019. "Regional Heterogeneity and the Refinancing Channel of Monetary Policy, *Quarterly Journal of Economics*.

Berger, D., Guerrieri, V., Lorenzoni, G., & Vavra, J., 2018. "House Prices and Consumer Spending." *The Review of Economic Studies*, 85(3): 1502–1542

Campbell, John Y. and Cocco, João F. 2007. "How do house prices affect consumption? Evidence from micro data", *Journal of Monetary Economics* 54(3):591-621.

\*Erik Hurst, Benjamin J. Keys, Amit Seru and Joseph Vavra, 2016. "Regional Redistribution through the US Mortgage Market," *American Economic Review*, vol. 106(10), pages 2982-3028.

Kaplan, G., Mitman, K., and Violante, G. 2020. "Non-durable Consumption and Housing Net Worth in the Great Recession: Evidence from Easily Accessible Data." *Journal of Public Economics*.

Kerwin Kofi Charles, Erik Hurst and Matthew J. Notowidigdo, 2018. "Housing Booms and Busts, Labor Market Opportunities, and College Attendance." *American Economic Review*, 108(10): 2947-94.

Mian, A., Rao, K., and Sufi, A., 2013. "Household Balance Sheets, Consumption, and the Economic Slump." *Quarterly Journal of Economics*, 128(4), 1687–1726.

\*Mian, A. and Sufi, A., 2014. "What Explains the 2007–2009 Drop in Employment?". *Econometrica*, 82: 2197-2223.

Miller, S. and Soo, C., 2021. "Do Neighborhoods Affect Credit Market Decisions of Low-Income Borrowers? Evidence from the Moving to Opportunity Experiment". *Review of Financial Studies*.

## **IX. Land Use Regulation**

\* Duranton, Gilles and Diego Puga, 2015. "Urban Land Use" in Handbook of Regional and Urban Economics Volume 5, Edited by Gilles Duranton, J. Vernon Henderson and William C. Strange.

Glaeser, Edward L. and Joseph Gyourko. 2005. "Urban decline and durable housing". *Journal of Political Economy*, 113(2): 345–375.

Saiz, Albert. 2010. "The geographic determinants of housing supply". *Quarterly Journal of*



*Economics*125(3): 1253–1296.

Turner, M.A., Haughwout, A. and van der Klaauw, W., 2014, “Land Use Regulation and Welfare”. *Econometrica*, 82: 1341-1403

## **X. Transportation**

Akbar, P., Couture, V., Duranton, G., and Storeygard, A. 2018. “Mobility and Congestion in Urban India”. NBER Working Paper, n. 25218.

Anderson, M., 2014. “Subways, Strikes, and Slowdowns: The Impacts of Public Transit on Traffic Congestion.” *American Economic Review*, 104 (9): 2763-96.

Ang, A., Christensen, P., and Vieira, R., 2020. “Should congested cities reduce their speed limits? Evidence from São Paulo, Brazil,” *Journal of Public Economics*, Volume 184.

Balboni, C., Bryan, G., Morten, M., & Siddiqi, B., 2020. “Transportation, Gentrification, and Urban Mobility: The Inequality Effects of Place-Based Policies.” Mimeo.

Couture, V., Duranton, G., and Turner, M. A., 2018. “Speed”. *The Review of Economics and Statistics*, 100(4):725–739

\* Hanna, R., Kreindler G., and Olken, B., 2017. “Citywide effects of high-occupancy vehicle restrictions: Evidence from “three-in-one” in Jakarta,” *Science*, Vol. 357 (6346).

Kreindler, G. 2020, “Peak-Hour Road Congestion Pricing: Experimental Evidence and Equilibrium Implications”, Mimeo.

\* Stephen J. Redding, and Matthew A. Turner, 2015. “Transportation Costs and the Spatial Organization of Economic Activity” in *Handbook of Regional and Urban Economics* Volume 5, Edited by Gilles Duranton, J. Vernon Henderson and William C. Strange.

Tsivanidis, N. 2019. “Evaluating the Impact of Urban Transit Infrastructure: Evidence from Bogotá’s TransMilenio”. Mimeo

## **GRADING**

Mock referee report of a paper (homework assignment 1): 15%  
Mock referee report of a paper (homework assignment 2): 15%  
Presentation of your project's idea: 20%  
Writeup of project proposal (homework assignment 3): 35%  
Class participation: 15%

## **PROFESSOR – EMAILS**

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