

## Esteban Rossi-Hansberg

### ADDRESS

The Kenneth C. Griffin Department of Economics  
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### DATE OF BIRTH

July 16, 1973

### CURRENT POSITIONS

Glen A. Lloyd Distinguished Service Professor  
The Kenneth C. Griffin Department of Economics, University of Chicago, since 2021  
Lead Editor of the *Journal of Political Economy*, since 2024  
Co-Director of BFI's International Economics and Economic Geography Initiative, since 2021  
Research Associate, National Bureau of Economic Research, since 2007  
Research Fellow, Center for Economic Policy Research, since 2009

### PREVIOUS POSITIONS

Theodore A. Wells '29 Professor of Economics, Economics and SPIA, Princeton University, 2014 – 2021  
Visiting Professor of Economics, Booth School of Business, University of Chicago, 2018 – 2019  
Professor of Economics, Economics and SPIA, Princeton University, 2007 – 2014  
Assistant Professor of Economics, Economics and SPIA, Princeton University, 2005 – 2007  
Assistant Professor of Economics, Department of Economics, Stanford University, 2002 – 2005

### EDUCATION

Ph.D.	Economics	University of Chicago	June 2002
M.A.	Economics	ITAM, Mexico	May 1997
B.A.	Economics	ITAM, Mexico	May 1996

### WORKING PAPERS

- “Banks in Space” (with Oberfield, Trachter, and Wenning)
  - NBER WP# 32256
- “Remote Work and City Structure” (with Monte and Porcher)
  - NBER WP# 31494
  - Winner of the Best Paper Award at the 2024 AREUEA National Conference
- “Anticipating Climate Change Across the United States” (with Bilal)
  - NBER WP# 31323
- “On the Geographic Implications of Carbon Taxes” (with Conte and Desmet)
  - NBER WP# 30678
- “Local Carbon Policy” (with Cruz)
  - NBER WP# 30027
- “Cognitive Hubs and Spatial Redistribution” (with Sarte and Schwartzman)
  - NBER WP# 26267

### JOURNAL PUBLICATIONS

- “Climate Change Economics over Time and Space” (with Desmet)
  - Forthcoming in *Annual Review of Economics*
- “Plants in Space” (with Oberfield, Sarte, and Trachter)
  - March 2024, *Journal of Political Economy*, 132:3, 867-909

- “The Economic Geography of Global Warming” (with Cruz)
  - March 2024, *Review of Economic Studies*, 91:2, 899-939
- “The Industrial Revolution in Services” (with Hsieh)
  - May 2023, *Journal of Political Economy Macroeconomics*, 1:1, 3-42 (lead article)
- “Globalization and Pandemics” (with Antràs and Redding)
  - April 2023, *American Economic Review*, 113:4, 939-981
- “Location as an Asset” (with Bilal)
  - September 2021, *Econometrica*, 89:5, 2459-2495
- “Local Sectoral Specialization in a Warming World” (with Conte, Desmet, and Nagy)
  - July 2021, *Journal of Economic Geography*, 21:4, 493-530. Special Issue on the Economic Geography of Climate Change
- “Local Industrial Policy and Sectoral Hubs” (with Sarte and Schwarzman)
  - May 2021, *AEA Papers and Proceedings*, 111, 526-531
- “Diverging Trends in National and Local Concentration” (with Sarte and Trachter)
  - May 2021, *NBER Macroeconomics Annual 2020*, 35, 115-150.
- “Evaluating the Economic Cost of Coastal Flooding” (with Desmet, Kopp, Kulp, Nagy, Oppenheimer and Strauss)
  - March 2021, *American Economic Journal: Macroeconomics*, 13:2, 444-486
- “Learning from Coworkers” (with Jarosch and Oberfield)
  - March 2021, *Econometrica*, 89:2, 647-676
- “Productivity and Organization in Portuguese Firms” (with Caliendo, Mion, and Opromolla)
  - November 2020, *Journal of Political Economy*, 128:11, 4211-4257
- “Rethinking Detroit” (with Owens and Sarte)
  - May 2020, *American Economic Journal: Economic Policy*, 12:2, 258-305
- “Learning, Career Paths, and the Distribution of Wages” (with Caicedo and Lucas)
  - January 2019, *American Economic Journal: Macroeconomics*, 11:1, 49-88
- “Commuting, Migration and Local Employment Elasticities” (with Monte and Redding)
  - December 2018, *American Economic Review*, 108:12, 3855-3890
- “The Impact of Regional and Sectoral Productivity Changes on the U.S. Economy” (with Caliendo, Parro, and Sarte)
  - October 2018, *Review of Economic Studies*, 85:4, 2042-2096
- “The Geography of Development” (with Desmet and Nagy)
  - June 2018, *Journal of Political Economy*, 126:3, 903-983 (lead article)
  - Winner of the 2019 Robert E. Lucas Jr. Prize
- “Asia’s Geographic Development” (with Desmet and Nagy)
  - September 2017, *Asian Development Review*, 34:2, 1-25 (lead article)
- “Quantitative Spatial Economics” (with Redding)
  - August 2017, *Annual Review of Economics*, 9, 21-58 (lead article)
- “The Anatomy of French Production Hierarchies” (with Caliendo and Monte)
  - August 2015, *Journal of Political Economy*, 123:4, 809-852
- “Knowledge-based Hierarchies: Using Organizations to Understand the Economy” (with Garicano)
  - August 2015, *Annual Review of Economics*, 7, 1-30
- “On the Spatial Economic Impact of Global Warming” (with Desmet)
  - July 2015, *Journal of Urban Economics*, 88, 16-37
- “The Spatial Development of India” (with Desmet, Ghani, and O’Connell)
  - January 2015, *Journal of Regional Science*, 55:1, 10-30
- “Spatial Development” (with Desmet)
  - April 2014, *American Economic Review*, 104:4, 1211-1243
- “Urban Accounting and Welfare” (with Desmet)
  - October 2013, *American Economic Review*, 103:6, 2296-2327
- “The Impact of Trade on Organization and Productivity” (with Caliendo)
  - August 2012, *Quarterly Journal of Economics*, 127:3, 1393-1467
- “Innovation in Space” (with Desmet)
  - May 2012, *American Economic Review P&P*, 102:3, 447-452
- “Task Trade between Similar Countries” (with Grossman)
  - March 2012, *Econometrica*, 80:2, 593-629
- “Organizing Growth” (with Garicano)
  - March 2012, *Journal of Economic Theory*, 147:2, 623-656

- “Spin-offs and the Market for Ideas” (with Chatterjee)
  - February 2012, *International Economic Review*, 53:1, 53-93
- “Housing Externalities” (with Sarte and Owens)
  - June 2010, *Journal of Political Economy*, 118:3, 485-535
- “External Economies and International Trade Redux” (with Grossman)
  - May 2010, *Quarterly Journal of Economics*, 125:2, 829-858
- “On Spatial Dynamics” (with Desmet)
  - February 2010, *Journal of Regional Science*, 50:1, 43-63
- “Spatial Growth and Industry Age” (with Desmet)
  - November 2009, *Journal of Economic Theory*, 144:6, 2477-2502
- “Organizations and Trade” (with Antràs)
  - September 2009, *Annual Review of Economics*, 1, 43-64
- “Firm Fragmentation and Urban Patterns” (with Sarte and Owens)
  - February 2009, *International Economic Review*, 50:1, 143-186
- “Trading Tasks: A Simple Theory of Offshoring” (with Grossman)
  - December 2008, *American Economic Review*, 98:5, 1978-1997
- “The Effect of Information and Communication Technology on Urban Structure” (with Ioannides, Overman, and Schmidheiny)
  - April 2008, *Economic Policy*, 23:54, 201-242
- “Establishment Size Dynamics in the Aggregate Economy” (with Wright)
  - December 2007, *American Economic Review*, 97:5, 1639-1666
- “Urban Structure and Growth” (with Wright)
  - April 2007, *Review of Economic Studies*, 74:2, 597-624
- “Organization and Inequality in a Knowledge Economy” (with Garicano)
  - November 2006, *Quarterly Journal of Economics*, 121:4, 1383-1435
- “Specialization vs. Concentration: A Note on Theory and Evidence” (with Aiginger)
  - September 2006, *Empirica*, 33:4, 255-266
- “The Knowledge Economy at the Turn of the 20th Century: the Emergence of Hierarchies” (with Garicano)
  - April-May 2006, *Journal of the European Economic Association P&P*, 4:2-3, 396-403.
- “Offshoring in a Knowledge Economy” (with Antràs and Garicano)
  - February 2006, *Quarterly Journal of Economics*, 121:1, 31-77
- “A Spatial Theory of Trade”
  - December 2005, *American Economic Review*, 95:5, 1464-1491
- “Cities under Stress”
  - July 2004, *Journal of Monetary Economics*, 51:5, 903-937
- “Inequality and the Organization of Knowledge” (with Garicano)
  - May 2004, *American Economic Review P&P*, 94:2, 197-202
- “Optimal Urban Land Use and Zoning”
  - January 2004, *Review of Economic Dynamics*, 7, 69-106
- “On the Internal Structure of Cities” (with Lucas)
  - July 2002, *Econometrica*, 70:4, 1445-1476
  - Reprinted in Masahisa Fujita (ed.) *Spatial Economics*, Edward Elgar, 2005

#### BOOKS AND BOOK CHAPTERS

- “How Important are Organizational Decisions in Determining a Firm’s Productivity?”
  - *Portuguese Economic Growth: A View on Structural Features, Blockages and Reforms*, Banco de Portugal, 2019
- “Exporting and Organizational Change” (with Caliendo and Monte)
  - Ing and Yu, *World Trade Evolution: Growth Productivity and Employment*, Routledge, 2019
- “200 Years of Ricardian Theory: The Missing Dynamics”
  - Jones and Weder, *200 Years of Ricardian Trade Theory: Challenges of Globalization*, Springer, 2017
- “Spatial Growth: Comparing India, China, and the United States” (with Desmet)
  - Eggleston, Oi, and Wang, *Challenges in the Process of China’s Urbanization*, Stanford UP, 2017
- “Analyzing Urban Systems” (with Desmet)
  - Glaeser and Joshi-Ghani, *The Urban Imperative: Towards Competitive Cities*, Oxford UP, 2015
- “Organizing Offshoring: Middle Managers and Communication Costs” (with Antràs and Garicano)
  - Helpman, Marin, and Verdier, *The Organization of Firms in a Global Economy*, HUP, 2008

- “The Rise of Offshoring: It’s Not Wine for Cloth Anymore,” (with Grossman)
  - *The New Economic Geography: Effects and Policy Implications*, Jackson Hole: Federal Reserve Bank of Kansas City, 2006
- *Solutions Manual for Recursive Methods in Economic Dynamics* (with Irigoyen and Wright)
  - Harvard University Press, 2002

OTHER PUBLICATIONS

- “The Economic Impact of Climate Change over Time and Space”
  - December 2021, *NBER Reporter*, Number 4
- “Geography of Growth and Development”
  - July 2019, *Oxford Research Encyclopedia of Economics and Finance*. Oxford University Press.
- “Infrastructure Projects and the Flexibility of Urban Infrastructure”
  - March 2017, *Proceedings of the Institution of Civil Engineers*, 170:1, 3-5
- “Migration and the World Economy”
  - Fall 2016, *Harvard Economics Review*, IX:1, 25-26
- “Economics of Housing Externalities”
  - *International Encyclopedia of Housing and Home*
- “The Spatial Diffusion of Technology” (with Comin and Dimitriev)
  - November 2012, NBER WP# 18534
- “Organizations in the Aggregate Economy”
  - March 2009, *NBER Reporter*, Number 1
- “The Rise of Offshoring and its Implications for American Workers” (with Grossman)
  - Fall 2007, *Yale Economic Review*, 4:1, 50-56
- “Urban Growth” (with Ioannides)
  - *The New Palgrave Dictionary of Economics*, 2nd edition, Palgrave Macmillan
- “A Pricing Model for Mexican Mortgage-Backed Securities”
  - 1997, *Gaceta de Economía*, 5, 17-52, México (in Spanish)
- “Efficiency in the Market of ICA Shares in the Mexican Stock Market” (with Tribukait)
  - 1996, *Gaceta de Economía*, 2, 37-42, México (in Spanish)

OTHER CONTRIBUTIONS AND WRITINGS

- “Using Spatial Integrated assessment models to understand the local and global economic impact of climate change,” VoxEU, April 2024 (with Desmet)
- “Work from Home in Cities: A Tale of Coordination and Multiple Equilibria,” VoxEU, September 2023 (with Monte and Porcher)
- “The Importance of Anticipating Climate Change,” VoxEU, July 2023 (with Bilal)
- “Carbon Taxes May Be a Boon for the World, Even in the Short Run,” VoxEU, January 2023 (with Conte and Desmet)
- “Trade to Adapt: Changing Specialization to Cope with Climate Change,” VoxEU, May 2021 (with Conte, Desmet, and Nagy)
- “Assessing the Aggregate and Spatial Economic Impact of Global Warming,” VoxEU, March 2021 (with Cruz)
- “Globalization and Pandemics,” VoxEU, October 2020 (with Antràs and Redding)
- “How Do Globalization and Pandemics Interact? Surprising Insights from a New Model,” LSE COVID-19 Blog, September 30<sup>th</sup>, 2020 (with Antràs and Redding)
- “Big Business Is Driving America’s Smaller Cities,” *Wall Street Journal*, February 6<sup>th</sup>, 2020 (with Hsieh)
- “Optimal Policy Responses to the Growing Polarisation of Occupations in Space,” VoxEU, November 2019 (with Sarte and Schwartzman)
- “Top Firms and the Decline in Local Product-market Concentration,” VoxEU, October 2018 (with Sarte and Trachter)
- “Product Market Concentration Is Decreasing, and It’s Because of the Big Guys,” ProMarket, October 2018, (with Sarte and Trachter)
- “Adapt or be Flooded,” VoxEU, October 2018, (with Desmet and Nagy)
- “Wasted Urban Infrastructure: The City of Detroit,” VoxEU, February 2017, (with Owens III, and Sarte)
- “Defending Globalisation: Isolation Would Cost us Dearly,” VoxEU, November 2016 (with Desmet and Nagy)
- “Quantitative Spatial Economics: A Framework for Evaluating Regional Policy and Shocks in the Real World,” VoxEU, October 2016 (with Redding)
- “Learning, Career Paths, and the Distribution of Wages,” VoxEU, May 2016 (with Caicedo and Lucas)

- “The Organization of Production and Firm-level Productivity,” VoxEU, January 2016 (with Caliendo, Mion, and Oromolla)
- “Commuting, Migration and Local Employment Elasticities,” VoxEU, December 2015 (with Monte and Redding)
- “Geography, Idiosyncratic Shocks, and Aggregate Fluctuations,” Perspectives from Around the World 41, RIETI, Japan, April 2014
- “Moving to Greenland in the face of Global Warming,” VoxEU, January 2013 (with Desmet)
- “Heavy Technology: The Process of Technological Diffusion over Time and Space,” VoxEU, November 2012 (with Comin and Dmitriev)
- “Firms Reorganize to Grow (by Hiring Workers that Know and Earn Less),” VoxEU, August 2012 (with Caliendo and Monte)
- “Spatial Disparities in India: Have Mumbai and Chennai Become too Congested?,” VoxEU, June 2012 (with Desmet, Ghani, and O’Connell)
- “Are the World’s Megacities too Big?,” VoxEU, March 2011 (with Desmet)
- “The Geographic Concentration of Services Today Mirrors that of Manufacturing a Century Ago,” VoxEU, October 2007 (with Desmet)

#### TEACHING

Econ 26610, The Economics of Cities and Regions, University of Chicago, 2024  
 Econ 49700, Graduate 3<sup>rd</sup> Year Paper Seminar, University of Chicago, 2022-2023  
 Econ 33550, Graduate Spatial Economics, University of Chicago, 2022 – 2024  
 Chicago Booth 33454, Urban Economics, University of Chicago, 2019  
 Economics 503, 1<sup>st</sup> Year Graduate Macroeconomics, Princeton University, 2014 – 2020  
 Economics 522, 2<sup>nd</sup> Year Graduate Macroeconomics, Princeton University, 2008 – 2016  
 Economics 552/551, Graduate International Trade, Princeton University, 2007 – 2021  
 WWS 538: Urban Economics, Princeton University, 2012 - 2021  
 WWS 512b, Intermediate Macroeconomics, Princeton University, Spring 2006 – 2011  
 Globalization in Theory and Practice, ITAM, Summer, 2007 – 2009  
 Econ 233, Graduate Macroeconomics, Stanford University, 2004  
 Econ 266, Graduate International Trade, Stanford University, 2003 – 2004  
 Econ 165, International Economics, Stanford University, 2003 – 2004  
 Econ 203: Topics in Macroeconomics, University of Chicago, 1999 – 2002

#### PHD ADVISING (First job in parenthesis, \* Denotes main advisor)

Adrien Bilal\* (Harvard), Olivia Bordeu\* (UC Berkeley Haas), Juanma Castro-Vincenzi (Chicago), Shoumitro Chatterjee\* (Penn State), Arpita Chatterjee\* (UNSW), Alfonso Cebreros (Bank of Mexico), Cheng Chen (HKU), Levi Crews\* (UCLA), José-Luis Cruz\* (NY Fed), Eliav Danziger\* (SFU), Kunal Dasgupta\* (Toronto), Pablo Fajgelbaum\* (UCLA), Nicolas Fernandez-Arias\* (IMF), Santiago Franco\* (BU), Cecile Gaubert\* (UC Berkeley), Federico Huneeus\* (Central Bank of Chile), Hugo Lhuillier (Columbia), Kevin Lim (Toronto), Alisdair McKay (BU), David Nagy\* (CREI), Andrea Podhorsky (York), Charly Porcher\* (Georgetown), Ricardo Reyes-Heroles\* (Federal Reserve Board), Clara Santamaria\* (Universidad Carlos III), Edouard Schaal (NYU), Younghun Shim (IMF), Mariano Somale (Federal Reserve Board), Marcos Sora\* (UIUC), Tomasz Swiecki (UBC), Chang Sun (HKU), Mathieu Taschereau-Dumouchel (Wharton), Jade Vichyanond\* (IMF), Jonathan Vogel (UCLA), Thomas Winberry (Chicago Booth), Christian vom Lehn (BYU)

#### PROFESSIONAL ACTIVITIES

Lead Editor of the *Journal of Political Economy*, since 2024  
 Editor of the *Journal of Political Economy*, 2021 – 2024  
 Member of the Board of Editors of the *American Economic Review*, 2009 – 2012 and 2017 – 2022  
 Associate Editor of the *Journal of Urban Economics*, 2009 – 2023  
 Associate Editor of the *Journal of Regional Science*, 2010 – 2023  
 Associate Editor, *Journal of Political Economy*, 2018 – 2021  
 Associate Editor of the *Quarterly Journal of Economics*, 2008 – 2018  
 Associate Editor of the *Journal of Economic Theory*, 2013 – 2015  
 Associate Editor of the *Journal of Monetary Economics*, 2008 – 2012  
 Editor of the *B.E. Journals in Macroeconomics*, 2006 – 2009  
 Referee for: *American Economic Review*, *American Economic Journal: Macroeconomics, Microeconomics, Economic Policy*, *B. E. Journals in Macroeconomics, Canadian Social Sciences and Humanities Research Council*, *Econometrica*, *El Trimestre Económico*, *Economic Letters*, *Economic Theory*, *European Economic Review*, *Gaceta de Economía*, *International Economic Review*, *Journal of Economic Geography*, *Journal of Economic Growth*, *Journal of Economic Theory*, *Journal of Economic Behavior and Organization*, *Journal of the European Economic Association*, *Journal of Finance*, *Journal of International Economics*, *Journal of Monetary Economics*, *Journal of Political Economy*, *Journal of Public Economics*,

*Journal of Public Economic Theory, Journal of Regional Science, Journal of Urban Economics, National Science Foundation, Quarterly Journal of Economics, RAND Journal of Economics, Regional Science and Urban Economics, Review of Economic Dynamics, Review of Economic Studies, Swiss National Science Foundation, Urban Studies*  
 Member of the Advisory Board of the Opportunity and Inclusive Growth Institute at the Minneapolis Federal Reserve Bank, 2020 - Present  
 Co-organizer of the Chicago-Princeton Conference on Spatial Economics, University of Chicago and Princeton University, 2022 and 2023  
 Co-organizer of the conference "Assessing the Economic and Environmental Consequences of Climate Change", IMSI, University of Chicago, 2023  
 Co-organizer of the IES Summer Workshop, Princeton University, 2007 - 2019  
 Co-organizer of NBER Trade and Geography Conference, 2017 and 2018  
 Co-organizer of the 2010 and 2012 Conference in Urban and Regional Economics, Princeton University  
 Co-organizer of the Urban Economics Sessions, North American Meetings of the RSAI, 2008 - 2010  
 Program Chair of the 2007 Minnesota Workshop in Macroeconomic Theory  
 Member of the Program Committee of the Econometric Society Meetings, 2006, 2010, 2012, 2016  
 Program Co-Chair of the Society for Economic Dynamics Meetings, Vancouver, 2006  
 Member of the Program Committee of the Society for Economic Dynamics Meetings, Budapest, 2005  
 Co-organizer of the conference "Heterogeneity and Aggregation in Macroeconomics" SITE, 2004

FELLOWSHIPS, GRANTS, HONORS & AWARDS

2024 Best Paper Award, Real Estate and Urban Economics Association  
 2023 Outstanding Research Mentor Award, Department of Economics, University of Chicago  
 2022 Elected to the American Academy of Arts and Sciences  
 2019 Robert E. Lucas Jr. Prize  
 2017 Elected Fellow of the Econometric Society  
 2017 Best Instructor Award, Department of Economics, Princeton University  
 2016 Best Adviser Award, Department of Economics, Princeton University  
 2015 Best Adviser Award, Department of Economics, Princeton University  
 2011 Professional Merit Award, ITAM, México  
 2010 Geoffrey J. D. Hewings Award given by the North American Regional Science Council  
 2010 August Lösch Prize for outstanding academic research in the field of Regional Science  
 2010 International Growth Center Grant  
 2007 - 2009 Alfred P. Sloan Research Fellowship  
 2007 Young Global Leader, World Economic Forum  
 2005 - 2007 National Science Foundation Grant # SES-0453125 (with Mark Wright)  
 2002 - 2003 Stanford Institute for Economic Policy Research, Junior Faculty Grant  
 2001 - 2002 John M. Olin Foundation Dissertation Fellowship, University of Chicago  
 1999 - 2001 Bernard Monk Fellowship, University of Chicago  
 1998 John Lee Prize for best Theory of Income Core Examination, University of Chicago  
 1997 Palacios Macedo Medal for Academic Excellence, ITAM, México  
 1997 Mexican Academy of Science Prize for best Master Thesis in Economics  
 1996 IMEF Prize for best BA Thesis in Financial Economics, México

INVITED LECTURES AND PLENARY TALKS

PER Distinguished Lecture, Columbia University, October 2023  
 Purvis Lecture, Canadian Economic Association, Winnipeg, CA, June 2023  
 Keynote Speaker, Deutsche Bundesbank Spring Conference, May 2023  
 Keynote Speaker, Seminario de Perspectivas Económicas, ITAM Mexico, January 2023  
 Keynote Speaker, Midwest Macro Meetings, November 2022  
 Keynote Speaker, Society for Economic Dynamics Conference, June 2022  
 Keynote Speaker at IATRC Annual Meeting 2021  
 Keynote Speaker at the Economic Effects and Policy Responses to Climate Change and Natural Disasters, IIEP and World Bank, December 2021  
 Featured Speaker at the Friedman Forum, University of Chicago, November 2021  
 Keynote Speaker, Workshop on Trade, Spatial Economics, and the Environment, Indiana University, November 2021  
 Plenary Speaker, Barcelona Summer Forum 2021: Firms in the Global Economy  
 Plenary Speaker, HUML, Columbia University, September 2020  
 Plenary Speaker LACEA-LAMES, Puebla Mexico, 2019  
 Keynote Speaker at the Workshop "Labour Mobility and Migration: Determinants and Consequences", Bank of Italy, Rome 2019  
 Keynote Speaker at the Workshop on International Economic Networks, Vienna, June 2019  
 Keynote Speaker at the QUANTAGG Workshop, LMU Munich, December 2018

Keynote Speaker at the Fall 2018 Opportunity and Inclusive Growth Conference, Minneapolis Fed  
 Keynote Speaker at the Opportunity and Inclusive Growth 2018 Fall Conference, Minneapolis Federal Reserve Bank  
 Keynote Speaker at the 5th Urbanization and Poverty Reduction Research Conference, World Bank, September 2018  
 Keynote Speaker at IEB Workshop in Urban Economics, Barcelona, Summer 2018  
 Distinguished Speaker, Macroeconomics across Time and Space, May 2018  
 Keynote Speaker at SMU Conference on Urban and Regional Economics, Singapore, December 2017  
 Keynote Speaker at Workshop of Urban and Regional Economics Universidad Javeriana, Colombia, 2017  
 Keynote Speaker at Barcelona GSE Summer Forum, June 2017  
 Keynote Speaker at VIth International Conference "Industrial Organization and Spatial Economics", National Research University Higher School of Economics, Saint Petersburg, Russia, June 2017  
 Keynote Speaker at XIIIth Danish International Economics Workshop, June 2017  
 Keynote Speaker at Ridge Trade and Productivity Conference, Uruguay, December 2016  
 Pareto Lecture, ASSET 2016, Thessaloniki Greece, November 2016  
 Keynote Speaker at the Federal Reserve System Meetings on Regional Analysis, 2016  
 Keynote Speaker at ICSIC Conference, Cambridge University, June 2016  
 2<sup>nd</sup> Annual Inter-American Development Bank Lecture, 2015  
 Keynote Speaker at CRED 2015, University of Bern  
 JRS Keynote speaker at NARSC 2014  
 2013 Keynote speaker, FRB Richmond Regional Economics Workshop  
 2013 AMSE Globalization Lecture (Marseille, France)  
 Keynote Address, Technology, Assets, Skills, Knowledge and Specialization (TASKS) International Conference, IAB, BIBB, Bonn, Germany, January 2012  
 CRETE 2011, Milos, Greece  
 Semi-Plenary Talk, 2011 North American Summer Meetings of the Econometric Society  
 NOITS Workshop, Copenhagen School of Business, 2009  
 International Workshop in Economic Geography, Barcelona, 2008  
 2nd Annual Organizational Economics Workshop, University of Sydney, 2008  
 State of the Art Lecture, 2007 Canadian Economic Association Meetings

#### ACADEMIC VISITS

CEMFI (May 2022 and June 2023), Cowles Foundation at Yale University (April 2017), NYU (April 2017), Gerzensee (Switzerland, September 2016), PERC (August 2016), Becker-Friedman Institute at the University of Chicago (May 2014), Central Bank of Mexico (July 2014), Long Term Consultant at the Richmond Fed (2013 to present), EIEF (May-June, 2013), e61 Institute in Sydney Australia (March 2023), Sabbatical Leave at the Department of Economics of Harvard University (2012–13), UCLA (May 2012), CES (University of Munich, Summer 2012), CREI (Barcelona, Summer 2011), University of Chicago Booth (October 2007), LSE (December 2006), UC Berkeley (September 2006), Visiting Scholar Richmond Fed (May 2006), Visiting Scholar New York Fed (February-June 2006), Visiting Scholar Philadelphia Fed (2005 to 2012), Columbia University (Spring 2005), Minneapolis Fed (Fall 2002, Fall 2004, Fall 2006, Summer 2017, 2018, 2019)

#### INVITED SEMINARS AND PRESENTATIONS

"Banks in Space": Pacific Macro Conference (Waimea, HI), Michigan, Yale, NYU, Oxford, LSE, Bank of Portugal, Robert E. Lucas Memorial Conference  
 "Anticipating Climate Change Across the United States": Princeton, Dallas Fed, USC, Conference of the Yrjö Jahnsson Foundation on Climate Change and Inequality (Helsinki)  
 "Remote Work and City Structure": Duke, Notre Dame, Purdue, Chicago, Princeton IES, VI MadMac Conference Madrid, NBER SI, Richmond Fed, Dallas Fed, Wisconsin (Madison), MSU, Mannheim, SED Meetings 2024  
 "On the Geographic Implications of Carbon Taxes": CEMFI, IX Workshop on Structural Transformation in Cagliari, Richmond Fed, Colorado, Philadelphia Fed, Dallas Fed, Duke and NC State, UBC, SF Fed, Chicago, e61 Institute (Sydney), Stanford, NBER ITI, TSE Taipei  
 "The Economic Geography of Global Warming": Econometric Society World Congress 2020, San Francisco Fed's Virtual Seminar on Climate Change, IIES, Princeton, Toronto, VITM Seminar, IDB, Cambridge, Hoover Stanford, Imperial College London, IDB, Cambridge, ASU, UBS Center Zurich, NBER SI 2021, Minnesota Macro Conference, Bank of Portugal, ASU, Infonavit, UBS Center Zurich, Geneva Trade and Development Workshop, ERWITT, Austin, Chicago Fed, UConn, Ohio State, Yale, UIUC, Columbia, NY Fed, Central Bank of Chile  
 "Globalization and Pandemics": Princeton, Vanderbilt

- “Plants in Space”: NBER SI 2020, NBER Mega-Firms Conference 202, IEA 2021 Bali, Northwestern Kellogg, St Louis Fed., Harvard HBS, PUC Chile, Halle Germany
- “Cognitive Hubs and Spatial Redistribution”: NBER SI 2019, Minneapolis Fed., USC, BU, Central Bank of Mexico, NBER, Northwestern, University of Oslo, AEA 2021, SNS
- “The Industrial Revolution in Services”: Yale (Cowles), UCLA, BU, Princeton, OMG Conference, Oslo, Fed Board
- “Evaluating the Economic Cost of Coastal Flooding”: ITAM, IMF
- “Diverging Trends in National and Local Concentration”: UIUC, Harvard Law School’s CPI conference, Richmond Fed, UIUC, ASSA/SGE, 2020 NBER Macroeconomics Annual
- “Learning from Co-workers”: CEMFI, MIT, Stanford
- “Location as an Asset”: Berkeley, Princeton, CMU, Harvard, NBER SI, Alicante, Richmond Fed, Atlanta Fed, Yale, St. Louis Fed, NYU, Duke, NYU Stern
- “Rethinking Detroit”: AEA 2017, ETH Zurich, Yale, Chicago Booth, World Bank, Georgetown, NBER, Minneapolis Fed, CURE 2017, University of Michigan
- “Learning, Career Paths, and the Distribution of Wages”: Argentina’s Central Bank, HKUST, Richmond Fed, NBER, CREI, LSE, Bocconi, University of Zurich, ITAM, Bank of Mexico, Philadelphia Fed
- “Productivity and Organization in Portuguese Firms”: IGIER-CSEF Conference (Capri), NYU, Princeton, MIT, Chicago BFI, HKU, Western, AEA 2017
- “Commuting, Migration and Local Employment Elasticities”: Berkeley Haas, Munich, Richmond Fed, SMU, Stanford, UBC, Pekin University, UTDT, Chicago
- “The Geography of Development”: Princeton, USC, Penn State, Brown, Duke, Northwestern, GWU, New York Fed, BU, ERWIT 2015, NBER SI 2015, Cowles, Regensburg, Cambridge, PERC Conference, UCLA, NBER Macroeconomics in Time and Space, Harvard, Bayreuth, ITAM
- “The Impact of Regional and Sectoral Productivity Changes on the U.S. Economy”: Minnesota, Philadelphia Fed, Zurich, LSE, LAMES-LACEA, Toulouse, Columbia, Cowles, ERWIT Oslo 2014, Central Bank of Mexico, HUML 2014, Washington, Kiel Institute, Chicago
- “On the Spatial Economic Impact of Global Warming”: Conference on Climate and the Economy (IIES, Stockholm), Harvard, MIT, Princeton STEP, Tokyo, Osaka, NBER Macroeconomics in Time and Space, Boston Fed, Chicago Booth, Bologna, EIEF, NYU
- “Innovation in Space”: Winter AEA Meetings 2012
- “The Anatomy of French Production Hierarchies”: Econometric Society Winter Meetings 2012, Princeton, ERWIT Barcelona 2012, Munich, UCLA, Columbia GDB, Princeton IES Workshop, NBER SI 2012, IFN (Stockholm), MIT, UCL, NBER Organizational Economics, World Bank, UC Berkeley, UC Irvine, Wharton, CERGE-EI, Bank of Belgium, Stanford
- “The Spatial Diffusion of Technology”: RSAI 2011, HULM Spring 2012, ITAM Summer Camp (Mexico), NBER SI 2012, Bologna
- “The Impact of Trade on Organization and Productivity”: Chicago, NBER Organizational Economics Working Group, 2010 Notre Dame Trade and Growth Conference, Cowles, SED Meetings 2011, CREI, FGV, NBER ITI, Bank of Italy, WTO, Stanford, UCSD, Carlos III
- “Urban Accounting and Welfare”: Princeton, UQAM, Wharton, RSAI 2010, Boston, 2011 AEA Meetings, PUC Rio, CURE CEPR Madrid 2011, World Bank, Princeton Global Forum Shanghai
- “Spatial Development”: NBER Macroeconomics across Space and Time 2009, Syracuse, CURE CEPR Milan 2009, RSAI 2009, Chicago, Richmond Fed, Econometric Society Atlanta 2010, MIT, UC Berkeley, Iowa State, UCSB, St. Louis Fed, ITAM Summer Camp, NBER SI EFGJK, New York Fed
- “Housing Externalities”: Toronto, Penn State, RSAI 2008, Princeton, Duke, Chicago GSB, CPB Netherlands, Tinbergen Institute Amsterdam, Hass Berkeley
- “External Economies and International Trade Redux”: ERWIT Madrid 2009, LAMES 2009 Buenos Aires
- “Task Trade between Similar Countries”: RMM Conference (Toronto), Boston College, Collegio Carlo Alberto (Turin), New Economic Geography Conference (Passau University), NBER ITI Spring Meetings 2009, NOITS Copenhagen, Hitotsubashi Conference (Japan), Tufts, Madrid MIAOW

- “Organizing Growth”: University of Pennsylvania, Clemson University Conference in Honor of Robert E. Lucas Jr., Chicago GSB, Erasmus School of Economics, ECARES, Northwestern, Chicago Fed, Wharton, Wisconsin, UCLA, UCSD, Universidad Autónoma de Barcelona, Minnesota Workshop in Macroeconomic Theory, SED Meetings 2008, World Bank
- “Spatial Growth and Industry Age”: Econometric Society Winter Meetings (Chicago), University of Chicago Conference in Honor of Robert E. Lucas Jr., Canadian Economic Association Meetings, UT Austin, Hass School of Business UC Berkeley
- “Spin-offs and the Market for Ideas”: Yale, Minneapolis Fed, NYU Stern, IIES Stockholm, SED Meetings 2007 (Prague), Stanford SITE, ITAM Summer Camp, AEA Meetings 2008, Philadelphia Workshop on Monetary and Macro Economics 2008, LSE
- “Trading Tasks: A Simple Theory of Offshoring” : AEA Meetings (Chicago), LSE, Philadelphia Fed, LACEA/LAMES 2006, Georgetown, Harvard, Cornell, Duke, Virginia, MIT, Iowa, UC Berkeley, UC Davis, Williams College, World Bank Commission for Growth and Development, NBER ITI 2007
- “Organizing Offshoring: Middle Managers and Communication Costs”: SED Meetings 2006 (Vancouver), CREI, University Carlos III, NBER ITI Spring Meetings 2006, Brown
- “Firm Fragmentation and Urban Patterns”: New York Fed, Columbia, NBER Urban Group Meeting Boston 2005, RSAI 2005
- “Offshoring in a Knowledge Economy”: SED Meetings 2005 (Budapest), MIT, Harvard, NBER EFG Winter Meeting 2005, Princeton, Stanford (GSB and Economics Department)
- “Firm Size Dynamics in the Aggregate Economy”: Cornell, Philadelphia Fed, UIUC, Mannheim, ECB, Montreal, Chicago GSB, Columbia, Richmond Fed, Minnesota Workshop in Macroeconomic Theory, SED Meetings 2004
- “Cities under Stress”: Carnegie-Rochester Conference on Public Policy: “Macroeconomics of Terrorism”
- “Urban Structure and Growth”: SED Meetings 2004 (Florence, Italy), UBC, CIDE, UT Austin, Princeton, UCLA, UC Santa Cruz, Cleveland Fed, USC, Penn, NBER SI 2003
- “Organization and Inequality in a Knowledge Economy”: Penn State, Frankfurt, Kansas City Fed, ITAM, USC, Goldwater Conference on Labor Markets (Arizona), Minneapolis Fed, Arizona, NYU, Rochester, UC Berkeley, NBER SI 2003, SED Meetings 2003, Stanford, VII Meeting of LACEA (Madrid, Spain)
- “A Spatial Theory of Trade”: UCLA, Stanford, Fuqua Duke, Rice, SED Meetings 2001, Stern NYU, Minnesota, MIT, Chicago
- “Optimal Urban Land Use and Zoning”: SIEPR Stanford, Universidad de Chile, RSAI 2002, UC Berkeley, Washington, Boston, Brown, UCSB, Toronto, UT Austin, Michigan, Vanderbilt, Stanford, Minneapolis Fed, VI Meeting of LACEA (Montevideo), ITAM, SED Meetings 2002, Chicago
- “On the Internal Structure of Cities”: Universidad de Chile, Problems and Perspectives on the Calculus of Variations (Fields Institute, Toronto), Chicago, ITAM, SED Meetings 2000

#### DISCUSSIONS

Econometric Society Winter Meetings, Washington 2003; SCID Conference on Latin America 2003, Stanford University; SCID Conference on India 2004, Stanford University; NBER Summer Institute 2005; ITAM Summer Camp in Macroeconomics 2005; 2006 AEA Meetings; Bank of Portugal Conference on Monetary Economics, Portugal 2006; RSAI Meetings 2008-2011; 2011 AEA Meetings; 2012 AEA Meetings, 2012 Handbook of International Economics Conference (Harvard), 200 Years of Ricardian Theory Conference at the University of Basel 2017, Princeton Growth Conference 2019, AEA Meetings 2021