

JEVGENIJS STEINBUKS

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• Citizen of Latvia (European Union) and the United States

CURRENT POSITION

Senior Economist, Office of Chief Economist for Infrastructure Practice, World Bank

OTHER AFFILIATIONS

Affiliate Researcher, Energy Policy Research Group, University of Cambridge
Member of Steering Committee, Sustainable Energy Transition Initiative, EfD Research Network
Member of the Committee on Energy Statistics, American Statistical Association

EDUCATION

Ph.D in Economics, George Washington University (2008)
M.Sc in Economics, University of Warwick (2002)
B.S.S. in Economics, University of Latvia (2000)

RESEARCH INTERESTS:

Developing and Post-Communist Economies; Economic Growth; Empirical Industrial Organization;
Energy and Environmental Economics; Political Economy, Urban, Real Estate, and Land Economics

ACADEMIC EXPERIENCE:

Senior Economist, Development Research Group, World Bank (2020-2022)
Economist, Development Research Group, World Bank (2013-2020)
Research Associate, Center for Global Trade Analysis, Purdue University (2010-2013)
Director of Economic Studies, Sidney Sussex College, University of Cambridge (2008-2010)
Research Associate, Electricity Policy Research Group, University of Cambridge (2008-2010)
Visiting Assistant Professor in Economics, Miami University (2006-2008)
Research Consultant, Sustainable Development Department, World Bank (2005-2007)
Research Economist, Credit Research Center, Georgetown University (2004-2005)
Research Consultant, Investment Climate Department, World Bank (2003-2005) Research Assistant,
Department of Economics, University of Latvia (1998-1999)

FELLOWSHIPS, AWARDS, GRANTS

1. Infrastructure in Fragile and Conflict-Affected Economies (2022-2024, World Bank, \$200,000)
2. World Bank Academy Award for Best Research Paper on Europe and Central Asia Region (2020)
3. Developing Country Cities and Climate Change Adaptation (2020-2022, World Bank, \$175,000)
4. Spatial Structural Transformation Effects of Infrastructure Investment (2019-2020, World Bank, \$30,000)
5. The Micro-Foundations of Aggregate Infrastructure Needs (2018-2019, World Bank, \$98,000)
6. Recognition of Exemplary Publication in the *Environmental and Resource Economics* (2017)

7. Electricity Availability, Structural Transformation, and Economic Growth (2016-2017, World Bank, \$100,000)
8. Will Global Change Jeopardize the US Forest Carbon Sink? (2015-2017, USDA, \$500,000)
9. Ramping up Deployment of Photovoltaics: Economic and Environmental Consequences (2013-2014, World Bank, \$6,500)
10. Understanding the Economic and Environmental Consequences of Widespread Deployment of Thin Film Solar Photovoltaics (2013-2016, National Science Foundation, \$298,388)
11. Critical Material Hub (2013-2017, U.S. Department of Energy, \$805,000)
12. Global Policy Institute Research Grant (2012-2013, Purdue University, \$39,958)
13. Post-doctoral Research Fellowship (2010-2012, National Science Foundation)
14. FlexNet Fellowship (2008-2010, U.K. Engineering and Physical Sciences Research Council)
15. Global Leaders Fellowship, (2002 – 2006, George Washington University)
16. Fulbright Fellowship (2002 – 2003, Department of State)
17. Departmental acknowledgement of best *MSc* thesis, (2001, University of Warwick)

PUBLICATIONS:

Journal Articles

1. J. Callejas, J. Linn, and **J. Steinbuku**. “Welfare and Environmental Benefits of Electric Vehicles Tax Policies in Developing Countries: Evidence from Colombia”, *Journal of the Association of Environmental and Resource Economists*, forthcoming
2. C. Galeazzi, **J. Steinbuku**, and L. Anadón. “Assessing the Impact of Renewable Energy Policies on Decarbonization in Developing Countries”, *Renewable and Sustainable Energy Reviews*, forthcoming
3. Y. Cai, **J. Steinbuku**, J. Jaegermeyr, and T. Hertel. “Assessing Effects of Climate and Technology Uncertainties in Large Natural Resource Allocation Problems”, *Geoscientific Model Development*, forthcoming
4. A. Alberini, **J. Steinbuku**, and G. Timilsina. 2022. “How Valuable is the Reliability of Residential Electricity Supply in Low-Income Countries? Evidence from Nepal”, *Energy Journal*, 44(3).
5. G. Timilsina and **J. Steinbuku**. 2021. “Economic Costs of Electricity Load Shedding in Nepal”, *Renewable and Sustainable Energy Reviews*, 146 (111112).
6. M. Sievert and **J. Steinbuku**. 2020. “Willingness to Pay for Electricity Access in Extreme Poverty: Evidence from Sub-Saharan Africa”, *World Development*, 128(104859).
7. M. Hyland and **J. Steinbuku**. 2019. “Capital Adjustment and the Optimal Fuel Choice”, *Energy Journal*, 40(5), pp. 73-96.
8. **J. Steinbuku**. 2019. “Assessing the Accuracy of Electricity Production Forecasts in Developing Countries”, *International Journal of Forecasting*, 35(3), pp. 1175-1185.
9. Y. Cai, H. Selod, and **J. Steinbuku**. 2018. “Urbanization and Land Property Rights”, *Regional Science and Urban Economics*, 70, pp. 246-257.
10. L. Orea and **J. Steinbuku**. 2018. “Estimating Market Power Using a Composed Error Model: Application to the California Electricity Market”, *Economic Inquiry*, 56(2), pp 1296–1321.
11. **J. Steinbuku**, G. Satija, and F. Zhao. 2017. “Sustainability of Solar Electricity: The Role of Endogenous Resource Substitution and Cross-Sectoral Responses”, *Resource and Energy Economics*, 49, pp. 218–232.
12. G. Sharafutdinova and **J. Steinbuku**. 2017. “Governors Matter: A Comparative Study of State-Business Relations in Russia’s Regions”, *Economics of Transition*, 25(3), pp. 471-493.
13. Y. Cai, K. Judd, and **J. Steinbuku**. 2017. “A Nonlinear Certainty Equivalent Approximation Method for Dynamic Stochastic Problems”, *Quantitative Economics*, 8(1), pp. 117–147.
14. A. Nikandrova and **J. Steinbuku**. 2017. “Contracting for Second-Best in Dysfunctional Electricity Markets”, *Journal of Regulatory Economics*, 51(1), pp. 41-71.
15. P. Alexander, R. Prestele, P.H. Verburg, A. Arneth, C. Baranzelli, F. Batista e Silva, C. Brown, Adam Butler, K. Calvin, N. Dendoncker, J.C. Doelman, R. Dunford, K. Engström, D. Eitelberg, S.

- Fujimori, P.A. Harrison, T. Hasegawa, P. Havlik, S. Holzhauser, F. Humpenöder, C. JacobsCrisioni, A.K. Jain, T. Krisztin, P. Kyle, C. Lavallo, T. Lenton, J. Liu, P. Meiyappan, A. Popp, T. Powell, R.D. Sands, R. Schaldach, E. Stehfest, **J. Steinbuks**, A. Tabeau, H. van Meijl, M.A. Wise, and M.D.A. Rounsevel. 2017. "Assessing Uncertainties in Land Cover Projections". *Global Change Biology*, 23(1), pp. 767-781.
16. T. Hertel, **J. Steinbuks**, and W. Tyner. 2016. "What is the Social Value of Second Generation Biofuels?" *Applied Economic Perspectives and Policy*, 38(4), pp. 599-617.
 17. **J. Steinbuks** and T. Hertel. 2016. "Confronting the Food-Energy-Environment Trilemma: Global Land Use in the Long Run", *Environmental and Resource Economics*, 63(3), pp. 545-570.
 18. **J. Steinbuks**. 2015. "Effects of Prepayment Regulations on Termination of Subprime Mortgages", *Journal of Banking and Finance*, 59, pp. 445-456.
 19. **J. Steinbuks** and B. Narayanan. 2015. "Fossil Fuel Producing Economies Have Greater Potential for Industrial Interfuel Substitution", *Energy Economics*, 47, pp. 168-177.
 20. **J. Steinbuks** and K. Neuhoff. 2014. "Assessing Energy Price Induced Improvements in Efficiency of Capital in OECD Manufacturing Industries", *Journal of Environmental Economics and Management*, 68(2), pp. 340-356.
 21. **J. Steinbuks** and G. Elliehausen. 2014. "The Economic Effects of Legal Restrictions on High Cost Mortgages", *Journal of Real Estate Finance and Economics*, 49(1), pp. 47-72.
 22. T. Hertel, **J. Steinbuks**, and U. Baldos. 2013. "Competition for Land in the Global Bioeconomy", *Agricultural Economics*, 44(s1), pp. 129-138.
 23. C. Desai, G. Elliehausen, and **J. Steinbuks**. 2013. "Effects of Foreclosure Laws and Bankruptcy Asset Exemptions on Mortgage Default and Foreclosure Rates", *Journal of Real Estate Finance and Economics*, 47(3), pp. 391-415.
 24. **J. Steinbuks** and T. Hertel. 2013. "Energy Prices Will Play an Important Role in Determining Global Land Use in the 21st Century", *Environmental Research Letters* 8(1), article 014014.
 25. **J. Steinbuks**. 2012. "Firms' Investment under Financial and Infrastructure Constraints: Evidence from In-House Generation in Sub-Saharan Africa", *The B.E. Journal of Economic Analysis and Policy*, Vol. 12: Iss. 1 (Topics), article 46.
 26. **J. Steinbuks**. 2012. "Interfuel Substitution and Energy Use in the UK Manufacturing Sector", *Energy Journal* 33(1), pp. 1-29.
 27. **J. Steinbuks** and V. Foster. 2010. "When Do Firms Generate? Evidence on In-House Electricity Supply in Africa", *Energy Economics* 32(3), pp. 505-514.
 28. G. Elliehausen, M. Staten, and **J. Steinbuks**. 2008. "The Effect of Prepayment Penalties on Pricing of Subprime Mortgages", *Journal of Economics and Business* 60(1-2), pp. 33-46.

Chapters in Edited Volumes

1. **J. Steinbuks** and G. Timilsina. 2014. Biofuels, Land Use, and Food Supply, in Timilsina, G. and Zilberman, D., (Eds.), *The Impacts of Biofuels on the Energy, Environment, and Poverty: A Global Perspective*, Springer.
2. **J. Steinbuks**. 2011. A Survey of Recent Developments in Energy Demand Modeling, in Jamasb, T. and Pollitt, M., (Eds.), *Electricity and Demand in a Low-Carbon World: Customers, Citizens and Loads*, Cambridge University Press: Cambridge UK.

Works under Revision in Peer Reviewed Journals

1. R. Chen and **J. Steinbuks**. Assessing the Potential for Energy Efficiency Improvements in Latin America, *Energy Policy*

Works under Review in Peer Reviewed Journals

1. M. Blimpo, S. McRae, and **J. Steinbuks**. “Why are Connection Charges so High? An Analysis of the Electricity Sector in Sub-Saharan Africa”, *World Bank Policy Research Paper 8407*
2. F. Perez-Sebastian, **J. Steinbuks**, J. Feres, and I. Trotter. “Electricity Access and Structural Transformation: Evidence from Brazil's Electrification”, *World Bank Policy Research Paper 9182*
3. N. Gorgulu, G. Sharafutdinova, and **J. Steinbuks**. “Political Dividends of Digital Participatory Governance: Evidence from Moscow Pothole Management”, *World Bank Policy Research Paper 9445*
4. F. Pérez-Sebastián, R. Serrano Quintero, and **J. Steinbuks**. “Spatial Misallocation of Complementary Infrastructure Investment: Evidence from Brazil.” *World Bank Policy Research Paper 10650*

World Bank Publications

1. R. Chen, R. Estevez Magnasco, A. Heins, F. Rocha, **J. Steinbuks**, and C. I. Vasquez Suarez. 2022. *Realizing the Potential of Energy Efficiency in Latin America and the Caribbean*. The World Bank, Washington, DC.
2. A. Sanghi and **J. Steinbuks**. 2021. *Energy Subsidies in Russia: Size, Impact, and Potential for Reform*. The World Bank, Washington, DC.
3. G. Peszko, **J. Steinbuks**, D. Knight, O. Emelyanova, and I. Rostovtseva. 2021. “Russia’s Green Transition: Pathways, Risks and Robust Policies”, Chapter 3 in *Russia Economic Report No. 46*. The World Bank, Washington, DC.
4. C. Galeazzi, **J. Steinbuks**, and J. Cust. 2020. “Africa’s Resource Export Opportunities and the Global Energy Transition (English). *Live Wire* No. 2020/111. The World Bank, Washington, DC
5. F. Perez-Sebastian and **J. Steinbuks**. 2019. “Public Infrastructure and Structural Transformation”, *World Bank Research Digest* 13(3). The World Bank, Washington, DC
6. **J. Steinbuks**. 2019. “Forecasting Electricity Demand in Developing Countries: Is There a Better Way?”, *World Bank Research Digest* 13(2). The World Bank, Washington, DC
7. M. Toman, **J. Steinbuks**, J. Peters, J. Mensah, and G. Timilsina. 2018. "Electricity Access and Economic Development: Options for Accelerating Progress in Sub-Saharan Africa", Chapter 3 in *Africa Pulse* No. 17. The World Bank, Washington, DC
8. **J. Steinbuks**, J. de Wit, A. Kochnakyan, and V. Foster. 2017. “Forecasting Electricity Demand: An Aid for Practitioners”, *Live Wire* No. 2017/73. The World Bank, Washington, DC
9. H. Fleisig, M. Safavian and **J. Steinbuks**. 2006. “Unlocking Dead Capital”, *Public Policy for Private Development* 307. The World Bank, Washington, DC

Permanent Working Papers

1. M. Hafstead, R. Williams III, A. Golub, S. Meijer, B. Narayanan, K. Nyamweya, and **J. Steinbuks**. “Effect of Climate Policies on Labor Markets in Developing Countries: Review of The Evidence and Directions for Future Research”, *World Bank Policy Research Paper 8332*
2. **J. Steinbuks** and T. Hertel. 2013. “Forest, Agriculture, and Biofuels in a Land use model with Environmental services (FABLE)”, *GTAP Working Paper 71*, Purdue University
3. **J. Steinbuks**, A. Meshreky, and K. Neuhoff. 2009. “The Effect of Energy Prices on Operation and Investment in OECD Countries: Evidence from Vintage Capital Model”, *Cambridge Working Paper in Economics* 0933
4. V. Foster and **J. Steinbuks**. 2009. “Paying the Price for Unreliable Power Supplies: Own Generation of Electricity by Private Firms in Africa”, *World Bank Policy Research Paper 4913*
5. G. Ellichehausen, M. Staten, and **J. Steinbuks**. 2006. “The Effects of State Predatory Lending Laws on the Availability of Subprime Mortgage Credit”, *FSRP Research Monograph 38*, George Washington University

RESEARCH IN PROGRESS

1. Effect of Coal Transportation Inefficiencies on Indian Wholesale Power Generation (with P. Chitkara and S. Khanna)
2. Road Investment and Violence in DRC: Perishable Effects (with M. Lebrand, H. Mueller, and P. Schouten)
3. Electricity Reliability and Firm Dynamics in Brazil (with J. Feres, I. Trotter, and E. Jardim)
4. Urbanization and Climate Change (with Y. Cai, H. Selod, and A. Yezer)

CONFERENCE AND WORKSHOP PRESENTATIONS

Agricultural and Applied Economics Association Annual Meetings: 2013, 2015
 American Economic Association Annual Meetings: 2010, 2011, 2012
 American Geophysical Union Annual Meetings: 2011, 2014***
 American Political Science Association Annual Meetings: 2020*
 American Real Estate and Urban Economics Association Mid-Year Conference: 2007, 2009*
 Association of Environmental and Resource Economists Annual Conference: 2019, 2020
 AU-GWU-IMF Workshop on Forecasting Issues in Developing Economies: 2017
 Cambridge-Oxford-Warwick Annual Doctoral Conference: 2010**
 Cowles Macroeconomics Summer Conference: 2012
 CSAE Annual Conference on Economic Development in Africa: 2008, 2016*, 2018, 2020*
 EACES-HSE Workshop on Topics in Political Economy of Development: 2020
 Eastern Economic Association Annual Conference 2016**
 Econometric Society Biannual North American Meetings: 2019
 Energy Policy Research Group Winter Research Conference: 2008
 European Conference on Financial Regulation and Supervision: 2007**, 2008
 European Economic Association Annual Symposium: 2010, 2019*
 European Association of Environmental and Resource Economists Annual Conference: 2017*, 2019, 2022
 Federal Reserve System's Community Affairs Research Conference: 2007*
 Financial Management Association Annual Conference: 2008, 2010
 GTAP Annual Conference on Global Economic Analysis: 2012, 2019
 Industrial Organization Society Annual Meetings: 2011, 2014, 2018, 2022
 INFORMS Annual Meetings: 2019*
 Institute for Computational Economics Annual Conference: 2011
 International Conference of Agricultural Economists: 2012*, 2015
 International Conference on Economic and Social Development, 2020
 International Association for Energy Economics Annual Conference: 2009, 2010, 2012, 2018*, 2020*
 International Workshop on Empirical Methods in Energy Economics: 2010, 2011, 2016, 2017, 2019, 2020, 2022, 2024
 LAUrban Workshop: 2023
 Royal Economic Society Annual Meetings: 2010, 2015, 2016
 Spanish Economic Association Annual Meetings: 2011*, 2017*
 Supergen FlexNet General Assembly: 2009
 Southern Economic Association Annual Meetings: 2009, 2016*
 Sustainable Energy Transitions Initiative Annual Workshop: 2017*, 2019
 Urban Economic Association Annual Meetings 2015*, 2022
 Urban Economic Association European Meetings 2017*, 2022*, 2023
 Urbanization and Poverty Reduction Annual Research Conference: 2014*, 2024
 World Bank Annual Conference on Land and Poverty 2016*
 World Bank Infra4Dev Annual Conference: 2020, 2022
 Young Energy Engineers & Economists Annual Seminar: 2010**

* - presented by co-author; ** - discussed a paper at the conference; *** - poster session

INVITED SEMINAR PRESENTATIONS

- 2022:** Universitat de Barcelona, Universidad de Navarra
- 2017:** George Washington University, University of Maryland (Agricultural & Resource Economics)
- 2016:** World Bank (Macroeconomics/Trade/Finance); Hull Business School; Oxford Institute for Energy Studies
- 2015:** Birkbeck, University of London; University of Alicante
- 2014:** University of Cambridge (Judge Business School); World Bank (Energy and Environment, Applied Micro)
- 2013:** World Bank (Energy and Environment); University College London (Sustainable Resource Institute); University of Cincinnati (Finance and Real Estate)
- 2012:** University of Illinois at Urbana-Champaign (Agricultural and Consumer Economics); Purdue University (Agricultural Economics); Baltic International Center for Economic Policy Studies
- 2010:** Moody's Economy.com; University of Birmingham; University of Cambridge; University of East Anglia; University of Lancaster; Purdue University (Agricultural Economics)
- 2009:** Central European University (Public Policy); Miami University; University of Surrey (Energy Economics Centre); University of Cambridge (Land Economy)
- 2008:** Bank of England (Financial Stability); George Washington University; HSE Russia (International College and Economics and Finance); University of Cambridge; University of Guelph (Marketing and Consumer Studies)
- 2007:** George Washington University; Miami University

REFEREEING EXPERIENCE

Journals: *Agricultural Economics, Applied Economics, B.E. Journal of Economic Analysis & Policy, Climatic Change, Ecological Economics, Economic Analysis and Policy, Economic Modelling, Empirical Economics, Energy Economics, Energy Efficiency, Energy Journal, Energy Policy, Environmental and Resource Economics, European Economic Review, International Forestry Review, International Journal of Energy Sector Management, International Journal of Industrial Organization, Journal of the Association of Environmental and Resource Economists, Journal of Cleaner Production, Journal of Development Economics, Journal of Financial Stability, Journal of Housing and Built Environment, Journal of the Operations Research Society, Journal of Policy Analysis and Management, Journal of Regional Science, Land Use Policy, Nature, Review of Development Economics, Review of Energy and Environmental Policy, Scandinavian Journal of Economics, Scottish Journal of Political Economy, Technological Forecasting and Social Change, Utilities Policy, Weather, Climate, and Society, World Bank Economic Review, World Development*

Books and book proposals: *Palgrave McMillan*

Working Papers: *Cambridge Working Papers in Economics, Czech National Bank Working Papers, InterAmerican Development Bank Working Papers*

Conferences: *GTAP Annual Conference on Global Economic Analysis*

Grants and awards: *World Bank Research Support Grants, World Bank ECA Academy Awards*

DISSERTATION SUPERVISIONS AND EXAMINATIONS

Undergraduate Students

2010: Rupert Harrison (University of Cambridge, BA in Economics, Principal Advisor)

2010: Sarah Robbins (University of Cambridge, BA in Economics, Principal Advisor)

Graduate Students

2024: Dhiroj P. Koirala (University of Massachusetts, PhD in Resource Economics, Thesis Advisor)

2022: Ruoyu Chen (George Washington University, PhD in Economics, Thesis Advisor)

2016: Weihua Zhao (George Washington University, PhD in Economics, Thesis Examiner)

2012: Gaurav Satija (Purdue University, MS in Materials Engineering, Co-Advisor)

2012: Thibault Normand (Stockholm School of Economics in Riga, Executive MBA, Principal Advisor)

2010: Elizabeth Railton (University of Cambridge, MPhil in Economics, Principal Advisor)

2010: Byron Radford (University of Cambridge, MPhil in Economics, Principal Advisor)

2010: Thanyaporn Chankrajang (University of Cambridge, PhD in Land Economy, Proposal Examiner)

Placements of Graduate Students / Research Assistants

2022: Ruoyu Chen, Assistant Professor, University of Windsor

2022: Jeronimo Callejas, Economist, Amazon

2021: Rafael Serrano, Post-Doctoral Researcher, Universitat de Barcelona

2021: Nisan Gorgulu, Post-Doctoral Researcher, Copenhagen Business School

2014: Gaurav Satija, PhD program in Agricultural Economics, University of Maryland

2011: Davide Cerutti, PhD program in Agricultural Economics, University of Maryland

OTHER PROFESSIONAL EXPERIENCE:

Career Diplomat (economic affairs), Ministry of Foreign Affairs of Latvia (1997-2000)

Assistant to Ambassador (economic affairs), Latvian Embassy in the USA (2002-2003)

PROGRAMMING: EViews, GAMS, Julia, Mathematica, MATLAB, Python, R, Stata, SAS

LANGUAGES: Fluent in Russian, English, and Latvian, intermediate French.