

# Johannes Urpelainen

## Curriculum Vitae

January 25, 2017

Department of Political Science  
Columbia University  
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## Employment

Associate Professor (untenured), Department of Political Science, Columbia University, July 2014 – June 2017

Assistant Professor, Department of Political Science, Columbia University, July 2009 – June 2014

## Visiting Positions

Aalto University, Department of Applied Physics, December 2014

Aalto University, Department of Applied Physics, December 2013

Institute for Regional Studies, Princeton University, 2012-2013

Finnish Institute of International Affairs, August 2012

## External Affiliations

International Growth Centre, Affiliate, 2015-

Working Group on Climate Change, Social Science Research Council, 2015-

Scholars Strategy Network, 2015-

## Awards

2015 Outstanding Paper Award given by *Clean Technologies and Environmental Policy* for “Solar Products for Poor Rural Communities as a Business: Lessons from a Successful Project in Uttar Pradesh, India”

## Education

Ph.D. Political Science, University of Michigan, 2009

M.Soc.Sc. International Relations, University of Tampere, 2006

B.Soc.Sc. International Relations, University of Tampere, 2005

## Research Focus

Political economy of energy and environment

Renewable energy

Power sector

Energy poverty

Fuel subsidies

Energy and environment in India

International cooperation and institutions

Emerging powers

North-South politics

Environmental cooperation

International organizations

Domestic-international linkages

## Book

*Cutting the Gordian Knot of Economic Reform: When and How International Institutions Help.* 2014. Oxford University Press. [With Leonardo Baccini]

*Renewables: The Politics of a Global Energy Transition.* Forthcoming. MIT Press. [With Michaël Aklin]

## Book Manuscripts under Contract

*Global Environmental Politics in the Twenty-First Century.* [under advance contract with Princeton University Press]

*The International Politics of Democratic Transitions: How International Organizations Assist New Democracies.* [With Paul Poast, under contract with Chicago University Press]

*Targeting Big Polluters: Understanding Activism against the Fossil Fuel Industry.* [With Andrew Cheon, under contract with Greenleaf Publishing]

## Complete Book Manuscripts

*Escaping the Energy Poverty Trap: When and How Governments Power the Lives of the Poor.* [With Michaël Aklin, Patrick Bayer, and S.P. Harish]

## Article Highlights

Factors Affecting Household Satisfaction with Electricity Supply in Rural India. 2016.  
*Nature Energy* 1: 16048. [With Michaël Aklin, Chao-yo Cheng, Karthik Ganesan, and Abhishek Jain]

It's All About Political Incentives: Democracy and the Renewable Feed-In Tariff. 2016.  
*Journal of Politics* 78 (2): 603-619. [With Patrick Bayer]

Instruments of Political Control: National Oil Companies, Oil Prices, and Petroleum Subsidies. 2015.  
*Comparative Political Studies* 48 (3): 370-402. [With Andrew Cheon and Maureen Lackner]

International Bureaucrats and the Formation of Intergovernmental Organizations: Institutional Design Discretion Sweetens the Pot. 2014.

*International Organization* 68 (1): 177-209. [With Tana Johnson]

Who Benefits From Economic Reform? Firms and Distributive Politics. 2014.

*Journal of Politics* 76 (3): 841-858. [With David Szakonyi]

Political Competition, Path Dependence, and the Strategy of Sustainable Energy Transitions. 2013.

*American Journal of Political Science*: 57 (3): 643-658. [With Michaël Aklin]

A Strategic Theory of Regime Integration and Separation. 2012.

*International Organization* 66 (4): 645-677. [With Tana Johnson]

## Other Articles on Environmental and Energy Politics

The Polarization of American Environmental Policy: A Regression Discontinuity Analysis of Senate and House Votes, 1971-2013. Forthcoming.

*Review of Policy Research* [With Sung Eun Kim]

Household Energy Access and Expenditure in Developing Countries: Evidence from India, 1987-2010. Forthcoming.

*Energy for Sustainable Development* [With Meir Alkon and S.P. Harish]

Policy Reform and the Problem of Private Investment: Evidence from the Power Sector. Forthcoming.

*Journal of Policy Analysis and Management* [With Joonseok Yang]

Removing Fuel Subsidies: How Can International Organizations Support National Policy Reforms? Forthcoming.

*International Environmental Agreements* [With Joel E. Smith]

The Business of Distributed Solar Power: A Comparative Case Study of Centralized Charging Stations and Solar Microgrids. Forthcoming.

*Wiley Interdisciplinary Reviews: Energy and Environment* [With Anthony Louis D'Agostino and Peter D. Lund]

Democracy, Autocracy, and the Urban Bias: Evidence from Petroleum Subsidies. Forthcoming.

*Political Studies*. [With Sung Eun Kim]

Rural Electrification and Groundwater Pumps in India: Evidence from the 1982-1999 Period. 2016.

*Resource and Energy Economics* 45: 31-45. [With Michael G. Smith]

Unawareness and Indifference to Economic Reform among the Public: Evidence from India's Power Sector Reform. 2016.

*Economics of Governance* 17 (3): 211-239. [With Chao-yo Cheng]

Political Competition and Renewable Energy Transitions over Long Time Horizons: A Dynamic Approach. 2016.

*Ecological Economics* 124: 175-184. [With Marion Dumas and James Rising]

Solar Power for Street Vendors? Problems with Centralized Charging Stations in Urban Markets. 2016.

*Habitat International* 53: 228-236. [With David Szakonyi]

Willingness to Pay for Solar Lanterns: Does the Trial Period Play a Role? 2016.

*Review of Policy Research* 33 (3): 291-315. [With Milind Kandlikar and Seme Yoon]

Does Power Sector Deregulation Promote or Discourage Renewable Energy Policy? Evidence from the States, 1991-2012. 2016.

*Review of Policy Research* 33 (1): 22-50. [With Sung Eun Kim and Joonseok Yang]

Support for Renewable Energy in China: A Survey Experiment with Internet Users. 2016.

*Journal of Cleaner Production* 112 (5): 3750-3758. [With Dingding Chen and Chao-yo Cheng]

Solar Products for Poor Rural Communities as a Business: Lessons from a Successful Project in Uttar Pradesh, India. 2016.

*Clean Technologies and Environmental Policy* 18 (2): 617-626. [With Semeo Yoon]

— **2015 CTEP Outstanding Paper Award**

Energy Poverty and Perceptions of Solar Power in Marginalized Communities: Survey Evidence from Uttar Pradesh, India. 2016.

*Renewable Energy* 85: 534-539.

Electric Utilities and American Climate Policy: Lobbying by Expected Winners and Losers. 2016.

*Journal of Public Policy* 36 (2): 251-275. [With Sung Eun Kim and Joonseok Yang]

Explaining Differences in Sub-National Patterns of Clean Technology Transfer to China and India. 2016.

*International Environmental Agreements* 16 (2): 261-283. [With Patrick Bayer and Alice Xu]

Multilateral Energy Lending and Urban Bias in Autocracies: Promoting Fossil Fuels. 2016.

*Mitigation and Adaptation Strategies for Global Change* 21 (2): 167-190. [With Sung Eun Kim]

The Political Economy of Energy Access: Survey Evidence from India on State Intervention and Public Opinion. 2015.

*Energy Research and Social Science* 10: 250-258. [With Michaël Aklin, Patrick Bayer, and S.P. Harish]

Interests, Institutions, and Climate Policy: Explaining the Choice of Policy Instruments for the Energy Sector. 2015.

*Environmental Science and Policy* 54: 52-63. [With Llewelyn Hughes]

All Policies Are Glocal: International Environmental Policymaking with Strategic Subnational Governments. 2015.

*British Journal of Political Science* 45 (3): 559-582. [With Michael Bechtel]

Light for All? Evaluating Brazil's Rural Electrification Progress, 2000-2010. 2015.

*Energy Policy* 86: 315-327. [With Tara Slough and Joonseok Yang]

Why Pick on Us? Environmental INGOs and State Shaming as a Strategic Substitute. 2015.

*Political Studies* 63 (2): 353-372. [With Amanda M. Murdie]

Escaping Oil's Stranglehold: When Do States Invest in Energy Security? 2015.

*Journal of Conflict Resolution* 59 (6): 953-983. [With Andrew Cheon]

When International Organizations Bargain: Evidence from the Global Environment Facility. 2015.

*Journal of Conflict Resolution* 59 (6): 1074-1100. [With Patrick Bayer and Christopher Marcoux]

Socio-Economic Determinants of Charcoal Expenditures in Tanzania: Evidence from Panel Data. 2015.

*Energy Economics* 49: 472-481. [With Anthony L. D'Agostino and Alice Xu]

Small and Beautiful? The Programme of Activities and the Least Developed Countries. 2015.

*Climate and Development* 7 (2): 153-164. [With Patrick Bayer and Valerie M. Pinkerton]

- Quantifying Slum Electrification in India and Explaining Local Variation. 2015.  
*Energy* 80: 203-212. [With Michaël Aklin, Patrick Bayer, and S.P. Harish]
- Solar Home Systems for Rural India: Survey Evidence on Awareness and Willingness to Pay from Uttar Pradesh. 2015.  
*Energy for Sustainable Development* 24: 70-78. [With Seme Yoon]
- Energy Poverty among Urban Street Vendors in India: Evidence from Patna, Bihar. 2015.  
*Energy for Sustainable Development* 24: 44-49. [With David Szakonyi]
- The International Renewable Energy Agency: A Success Story in Institutional Innovation? 2015.  
*International Environmental Agreements* 15 (2): 159-177. [With Thijs Van de Graaf]
- Who Should Take the Garbage Out? Public Opinion on Waste Management in Dar es Salaam, Tanzania. 2015.  
*Habitat International* 46: 111-118. [With Chao-yo Cheng]
- Relative Deprivation and Energy Poverty: When Does Unequal Access to Electricity Cause Dissatisfaction? 2014.  
*International Journal of Energy Research* 38 (13): 1727-1740. [With Eugenie Dugoua]
- The Global Spread of Environmental Ministries: Domestic-International Interactions. 2014.  
*International Studies Quarterly* 58 (4): 159-177. [With Michaël Aklin]
- Fuel Stacking in India: Changes in the Cooking and Lighting Mix, 1987-2010. 2014.  
*Energy* 76 (1): 306-317. [With Chao-yo Cheng]
- Laissez Faire and the Clean Development Mechanism: Determinants of Project Implementation in Indian States, 2003-2011. 2014.  
*Clean Technologies and Environmental Policy* 16 (8): 1687-1701. [With Patrick Bayer and Alice Xu]
- Information and Energy Policy Preferences: A Survey Experiment on Public Opinion about Electricity Pricing Reform in Rural India. 2014.  
*Economics of Governance* 15 (4): 305-327. [With Michaël Aklin, Patrick Bayer, and S.P. Harish]
- Who Blames Corruption for the Poor Enforcement of Environmental Laws? Survey Evidence From Brazil. 2014.  
*Environmental Economics and Policy Studies* 16 (3): 241-262. [With Michaël Aklin, Patrick Bayer, and S.P. Harish]
- Choosing International Organizations: When Do States and the World Bank Collaborate on Environmental Projects? 2014.  
*Review of International Organizations* 9 (4): 413-440. [With Patrick Bayer and Christopher Marcoux]
- American Evangelicals and Domestic Versus International Climate Policy. 2014.  
*Review of International Organizations* 9 (4): 441-469. [With Stephen Chaudoin and David Thomas Smith]
- Veto Players and the Value of Political Control: A Theory with Evidence From Energy Privatization. 2014.  
*Comparative Political Studies* 47 (10): 1384-1415. [With David Szakonyi]
- The Effect of Feed-In Tariffs on Renewable Electricity Generation: An Instrumental Variables Approach. 2014.  
*Environmental and Resource Economics* 57 (3): 367-392. [With Michael G. Smith]

- Sinking Costs to Increase Participation: Technology Deployment Agreements Enhance Climate Cooperation. 2014.  
*Environmental Economics and Policy Studies* 16 (3): 229-240.
- Grid and Off-Grid Electrification: An Integrated Model with Applications to India. 2014.  
*Energy for Sustainable Development* 19: 66-71.
- Early Adopters of Solar Panels in Developing Countries: Evidence from Tanzania. 2014.  
*Review of Policy Research* 31 (1): 17-37. [With Michael G. Smith]
- Environmental Standards as a Strategy of International Technology Transfer. 2014.  
*Environmental Science and Policy* 38: 192-206. [With Eri Saikawa]
- Perceptions of Scientific Dissent Undermine Public Support for Environmental Policy. 2014.  
*Environmental Science and Policy* 38: 173-177. [With Michaël Aklin]
- Addressing Cross-Border Environmental Displacement: When Can International Treaties Help? 2014.  
*International Environmental Agreements* 14 (1): 25-56. [With Narayan Subramanian]
- International Energy Funding: Who Funds Fossil Fuels, Who Funds Energy Access to the Poor? 2013.  
*International Environmental Agreements* 13 (4): 411-423. [With Sung Eun Kim]
- How Do Competing Special Interests Influence Environmental Policy? The Case of Renewable Electricity in Industrialized Democracies, 1989-2007. 2013.  
*Political Studies* 61 (4): 874-897. [With Andrew Cheon]
- Political Market Failure? The Effect of Government Unity on Energy Technology Policy in Industrialized Democracies. 2013.  
*Technovation* 33 (10-11): 333-344. [With Alexandra Cirone]
- Debating Clean Energy: Frames, Counter Frames, and Audiences. 2013.  
*Global Environmental Change* 56: 382-390. [With Michaël Aklin]
- Leveraging Private Capital for Climate Mitigation: Evidence from the Clean Development Mechanism. 2013.  
*Ecological Economics* 96: 14-24. [With Patrick Bayer and Christopher Marcoux]
- Electricity Sector Reform and Generators as a Source of Backup Power: The Case of India. 2013.  
*Energy for Sustainable Development* 17 (5): 477-481. [With David Szakonyi]
- Understanding Environmental Policy Preferences: New Evidence from Brazil. 2013  
*Ecological Economics* 94: 28-36. [With Michaël Aklin, Patrick Bayer, and S.P. Harish]
- When and How Can Advocacy Groups Promote New Technologies? Conditions and Strategies for Effectiveness. 2013.  
*Journal of Public Policy* 33 (3): 259-293. [With Sung Eun Kim]
- Can Strategic Technology Deployment Improve Climate Cooperation? A Game-Theoretic Analysis. 2013.  
*Mitigation and Adaptation Strategies for Global Change* 18 (6): 785-800.
- Why Do Governments Subsidize Gasoline Consumption? An Empirical Analysis of Global Gasoline Prices, 2002-2009. 2013.  
*Energy Policy* 56: 382-390. [With Andrew Cheon and Maureen Lackner]

- Who Uses the Clean Development Mechanism? An Empirical Analysis of Projects in Chinese Provinces. 2013.  
*Global Environmental Change* 23 (2): 512-521. [With Patrick Bayer and Jeremy Wallace]
- Trade Sanctions in International Environmental Policy: Deterring or Encouraging Free Riding? 2013.  
*Conflict Management and Peace Science* 30 (4): 309-334. [With Alexandra Cirone]
- Promoting International Environmental Cooperation Through Unilateral Action: When Can Trade Sanctions Help? 2013.  
*Global Environmental Politics* 13 (2): 26-45.
- Global Patterns of Renewable Energy Innovation, 1990-2009. 2013.  
*Energy for Sustainable Development* 17 (3): 288-295. [With Patrick Bayer and Lindsay Dolan]
- A Model of Dynamic Climate Governance: Dream Big, Win Small. 2013.  
*International Environmental Agreements* 13 (2): 107-125.
- External Sources of Clean Technology: Evidence from the Clean Development Mechanism. 2013.  
*Review of International Organizations* 8 (1): 81-109. [With Patrick Bayer]
- Issue Linkage in Clean Technology Cooperation: For Better or Worse? 2013.  
*Clean Technologies and Environmental Policy* 15 (1): 147-155.
- Why Has Public R&D on Alternatives to Fossil Fuels Decreased in Industrialized Countries? 2013.  
*Environmental Science and Policy* 25: 127-137. [With Michael G. Smith]
- Geoengineering and Global Warming: A Strategic Perspective. 2012.  
*International Environmental Agreements* 12 (4): 375-389.
- Legislative Fractionalization and Partisan Shifts to the Left Increase the Volatility of Public Energy R&D Expenditures. 2012.  
*Energy Policy* 46: 49-57. [With Leonardo Baccini]
- Environmental Regulation in the Shadow of International Trade Law: A Principal-Agent Analysis. 2012.  
*Strategic Behavior and the Environment* 2 (3): 193-215.
- Global Warming, Irreversibility, and Uncertainty: A Political Analysis. 2012.  
*Global Environmental Politics* 12 (4): 68-85.
- Dynamics of Spatial Interdependence: The Contingent Effect of International Trade on Voluntary Environmental Standards. 2012.  
*Environment and Planning C* 30 (5): 871-890. [With Christopher Marcoux]
- Intellectual Property Rights, Clean Technology, and Public Policy: A Strategic Analysis. 2012.  
*Strategic Behavior and the Environment* 2 (2): 173-191.
- Technology Investment, Bargaining, and International Environmental Agreements. 2012.  
*International Environmental Agreements* 12 (2): 145-163.
- Oil Prices and Energy Technology Innovation: An Empirical Analysis. 2012.  
*Global Environmental Change* 22 (2): 407-417. [With Andrew Cheon]
- Strategic Problems in North-South Climate Finance: Creating Joint Gains for Donors and Recipients. 2012.  
*Environmental Science and Policy* 21 (1): 14-23.

How Do Electoral Competition and Special Interests Shape the Stringency of Renewable Energy Standards? 2012.

*Environmental Economics and Policy Studies* 14 (1): 23-34.

The Strategic Design of Technology Funds for Climate Cooperation: Generating Joint Gains. 2012.

*Environmental Science and Policy* 15 (1): 92-105.

Special Interests, Regulatory Quality, and the Pesticides Overload. 2011.

*Review of Policy Research* 28 (6): 585-612. [With Christopher Marcoux]

Frontrunners and Laggards: The Strategy of Environmental Regulation under Uncertainty. 2011.

*Environmental and Resource Economics* 50 (3): 325-346.

Can Unilateral Leadership Promote International Environmental Cooperation? 2011.

*International Interactions* 37 (3): 320-339.

Export Orientation and Domestic Electricity Generation: Effects on Energy Efficiency Innovation in Select Sectors. 2011.

*Energy Policy* 39(9): 5638-5646.

Enforcing International Environmental Cooperation: Technological Standards Can Help. 2010.

*Review of International Organizations* 5 (4): 475-496.

A California Effect for International Externalities? 2011.

*International Interactions* 37 (2): 170-189.

Explaining the Schwarzenegger Phenomenon: Local Frontrunners in Climate Policy. 2009.

*Global Environmental Politics* 9 (3): 82-105.

## Other Articles on International Cooperation and Institutions

Not Letting 'Bad Apples' Spoil the Bunch: Democratization and Strict International Organization Accession Rules. Forthcoming.

*Review of International Organizations* [With Christodoulos Kaoutzakis and Paul Poast]

When Do International Economic Agreements Allow Countries to Pay to Breach? 2015.

*Review of International Organizations* 10 (2): 231-264. [With Krzysztof J. Pelc]

Your Place or Mine? Institutional Capture and the Creation of Overlapping International Institutions. 2015.

*British Journal of Political Science* 45 (4): 799-827. [With Thijs Van de Graaf]

Rising Regional Powers Meet the Global Leader: A Strategic Analysis of Influence Competition? 2015.

*International Political Science Review* 36 (2): 214-234. [With Sung Eun Kim]

When is Good News About Pro-Cooperation Lobbies Good News About Cooperation? 2015.

*British Journal of Political Science* 45 (2): 411-433. [With Stephen Chaudoin]

Profitable Participation: Technology Innovation as an Influence on the Ratification of Regulatory Treaties. 2014.

*British Journal of Political Science* 44 (4): 903-936. [With Christopher Marcoux]

Picking Treaties, Picking Winners: International Treaty Negotiations and the Strategic Mobilization of Domestic Interests. 2015.

*Journal of Conflict Resolution* 59 (6): 1043-1073. [With Joseph M. Brown]



- The Domestic Sources of Donor Credibility: When and How Can Domestic Interest Groups Improve the Effectiveness of Threats and Promises? 2015.  
*Journal of Conflict Resolution* 59 (2): 283-309. [With Man Yan Eng]
- How International Organizations Support Democratization: Preventing Authoritarian Reversals or Promoting Consolidation? 2015.  
*World Politics* 67 (1): 72-113. [With Paul Poast]
- A Strategic Theory of Effective Monitoring Arrangements for International Institutions. 2014.  
*Journal of Theoretical Politics* 26 (4): 599-628. [With Thania Sanchez]
- Does it Pay to Play? How Bargaining Shapes Donor Participation in Funding Global Public Goods. 2014.  
*Strategic Behavior and the Environment* 4 (3): 263-290. [With Patrick Bayer]
- Technology Competition and International Cooperation: Friends or Foes? 2014.  
*British Journal of Political Science* 44 (3): 545-574. [With Sung Eun Kim]
- Before Ratification: Understanding the Timing of International Treaty Effects on Domestic Policies. 2014.  
*International Studies Quarterly* 58 (1): 29-43. [With Leonardo Baccini]
- International Institutions and Domestic Politics: Can Preferential Trading Agreements Help Leaders Promote Economic Reform? 2014.  
*Journal of Politics* 76 (1): 195-214. [With Leonardo Baccini]
- Partisan Heterogeneity and International Cooperation: The Case of the European Development Fund. 2014.  
*Journal of Conflict Resolution* 58 (1): 120-142. [With Christina J. Schneider]
- Fit and Feasible: Why Democratizing States Form, not Join, International Organizations. 2013.  
*International Studies Quarterly* 57 (4): 831-841. [With Paul Poast]
- Non-Compliance by Design: Moribund Hard Law in International Institutions. 2013.  
*Review of International Organizations* 8 (2): 163-191. [With Christopher Marcoux]
- International Bargaining, Endogenous Domestic Constraints, and Democratic Accountability. 2013.  
*Journal of Theoretical Politics* 25 (2): 260-283. [With Terrence L. Chapman and Scott Wolford]
- Distributional Conflict Between Powerful States and International Treaty Ratification. 2013.  
*International Studies Quarterly* 57 (1): 13-27. [With Christina J. Schneider]
- Funding Global Public Goods: The Dark Side of Multilateralism. 2013.  
*Review of Policy Research* 30 (2): 160-189. [With Patrick Bayer]
- Capacity, Not Constraints: A Theory of North-South Regulatory Cooperation. 2012.  
*Review of International Organizations* 7 (4): 399-424. [With Christopher Marcoux]
- Costly Adjustments, Markets, and International Reassurance. 2012.  
*British Journal of Political Science* 42 (3): 679-704.
- Explaining Public Support for International Integration: How Do National Conditions and Treaty Characteristics Interact with Individual Beliefs? 2012.  
*Journal of Politics* 74 (4): 1108-1124. [With Thomas Sattler]
- Strategic Side Payments: Preferential Trading Agreements, Economic Reform, and Foreign Aid. 2012.  
*Journal of Politics* 74 (4): 932-949. [With Leonardo Baccini]

Unilateral Influence on International Bureaucrats: An International Delegation Problem. 2012.  
*Journal of Conflict Resolution* 56 (4): 701-732.

Accession Rules for International Institutions: A Legitimacy-Efficacy Trade-off? 2012.  
*Journal of Conflict Resolution* 56 (2): 290-312. [With Christina J. Schneider]

How Uncertainty About Outside Options Impedes International Cooperation. 2012.  
*International Theory* 4 (1): 133-163.

How Does Democratic Accountability Shape International Cooperation? 2012.  
*Conflict Management and Peace Science* 29 (1): 28-55.

NGO Monitoring and the Legitimacy of International Cooperation. 2012.  
*Review of International Organizations* 7 (1): 1-32. [With Christopher L. Pallas]

The Enforcement-Exploitation Trade-off in International Cooperation Between Weak and Powerful States. 2011.  
*European Journal of International Relations* 17 (4): 631-653.

International Technology Cooperation: The Problem of Commercial Rivalry. 2011.  
*Review of Policy Research* 28 (5): 423-450.

Domestic Reform as a Rationale for Gradualism in International Cooperation. 2011.  
*Journal of Theoretical Politics* 23 (3): 400-427.

Early Birds: Special Interests and the Strategic Logic of International Cooperation. 2011.  
*Review of International Organizations* 6 (2): 113-140.

Regulation Under Economic Globalization. 2010.  
*International Studies Quarterly* 54 (4): 1099-1121.

Enforcement and Capacity Building in International Cooperation. 2010.  
*International Theory* 2 (1): 32-49.

Political-Economic Problems in Trade Capacity Building. 2009.  
*Review of International Organizations* 4 (4): 329-359.

## Articles on Miscellaneous Topics

Windows of Opportunity: Legislative Fragmentation Conditions the Effect of Partisanship on Product Market Deregulation. 2016.  
*Journal of Public Policy* 36 (1): 51-86. [With Michael G. Smith]

Mission and Interests: The Strategic Formation and Function of North-South NGO Campaigns. 2013.  
*Global Governance* 19 (3): 401-423. [With Christopher L. Pallas]

The Origins of Social Institutions. 2011.  
*Journal of Theoretical Politics* 23 (2): 215-240.

## Policy Publications

Measuring Energy Access in India: Insights from Applying a Multi-Tier Framework in Cooking Energy and Household Electricity. Poor People's Energy Briefing 5, Practical Action. 2016. [With Abhishek Jain; Lucy Stevens]

Access to Clean Cooking Energy and Electricity: Survey of States. Report for Council on Energy, Environment and Water. 2015. [With Abhishek Jain; Sudatta Ray; Karthik Ganesan; Michaël Aklin; Chao-yo Cheng]

Low Oil Prices: An Opportunity for Fuel Subsidy Reform. 2015. Report for Center on Global Energy Policy at Columbia University. [With Keith Benes; Andrew Cheon; Joonseok Yang]

Soft Cooperation in the Shadow of Distributional Conflict? A Model-Based Assessment of the Two-Level Game between International Climate Change Negotiations and Domestic Politics. 2015. MIT Center for Energy and Environmental Policy Research, Working Paper 2015-001. [With Antto Vihma]

Consumer Demand and Experience with Mera Gao Power in Barabanki, Uttar Pradesh. 2015. Report for Mera Gao Power and SPEED India. [With Michaël Aklin; Patrick Bayer; S.P. Harish]

Mobilizing Public Support for Better Energy Policy in India. 2014. Report for Council on Energy, Environment and Water. [With Michaël Aklin; Patrick Bayer; S.P. Harish]

Social Aspects of Solid Waste Management in Dar es Salaam: A Pilot Study. 2013. Report for the Embassy of Finland, Dar es Salaam, Tanzania. [With Michaël Aklin; Patrick Bayer; S.P. Harish]

Preferential Trading Agreements and Economic Reform in Developing Countries. 2012. IMO Policy Paper 1/2012. [with Leonardo Baccini]

It's Not All About Trade: Preferential Trading Agreements Induce Economic Reforms in Developing Countries. 2012. ARTNet Policy Brief 33. [with Leonardo Baccini]

Towards a New Climate Regime? Views of China, India, Japan, Russia and the United States on the road to Copenhagen. 2008. Finnish Institute of International Affairs [with Anna Korppoo; Linda Jakobson; Antto Vihma; Alexandru Luta]

Päästörajoitusten ilmastohyödyt rajoitusten ulkopuolisissa maissa [Positive Climate Spillovers of Emissions Reductions to Non-Participating Countries]. 2007. Prime Minister's Office, Government of Finland.

## Invited Contributions

The Social Science of Sustainability. 2014. In *Emerging Trends in the Social and Behavioral Sciences*, edited by Robert Scott and Stephen Kosslyn. Hoboken: John Wiley and Sons.

## Teaching

Global Environmental Politics (undergraduate level: spring 2012, 2014, 2015, 2016)

Mathematics for Political Science (graduate level: fall 2009, 2010, 2011, 2013, 2014, 2015)

International Cooperation and Institutions (graduate level: fall 2010, 2011, 2013, 2014)

International Cooperation and Institutions (undergraduate level: spring 2011, 2012, 2014)

Political Economy of Energy and Environment (graduate level: fall 2015)

## Languages

Finnish (native)  
 English (fluent)  
 German (good)  
 Swedish (good)  
 French (intermediate)  
 Hindi (intermediate)  
 Russian (beginner)

## Field Projects Completed

Understanding Energy Technology Adoption in Rural India: The Case of Diesel and Electric Pumpsets for Groundwater Irrigation

**Summary:** This survey of 2,000 farmers in rural communities of India examines behavior, technology choice, and policy preferences. The goal of the study is to shed light on the role of electricity supply in groundwater irrigation, along with farmer preferences of various policies to improve the availability and conservation of groundwater.

**Collaborators:** Meir Alkon, Vijay Modi.

**Local Partners:** International Water Management Institute

**Funding:** Earth Institute, Columbia University

A Comprehensive Survey of Rural Energy Access and Poverty in Six Major Deprived States of India

**Summary:** This survey of 8,500 households in 700 villages examines patterns of energy access and poverty in Bihar, Jharkhand, Madhya Pradesh, Orissa, Uttar Pradesh, and West Bengal. The study area has a population of almost 600 million people. The survey covers both electricity and cooking fuels. The project captures the current situation and people's satisfaction, aspirations, and policy preferences.

**Collaborators:** Michaël Aklin, Chao-yo Cheng

**Local partners:** Council on Energy, Environment and Water

**Funding:** ClimateWorks Foundation and Shakti Sustainable Energy Foundation

Social, Economic, and Political Impacts of Solar Microgrids in Uttar Pradesh, India

**Summary:** This field experiment deploys solar microgrids to a randomly chosen set of rural communities in Uttar Pradesh, India.

**Collaborators:** Michaël Aklin, Patrick Bayer, S.P. Harish

**Local partners:** SPEED India and Mera Gao Power

**Funding:** SPEED India and International Growth Centre, India Program

Solar Home Systems and Rural Electrification: Promoting the Use of a Sustainable Energy Technology in Uttar Pradesh, India

**Summary:** This field experiment establishes energy technology centers in towns and conducts solar home system demonstrations in rural communities. We estimate the interactive effects of centers and demonstrations on solar home system sales, maintenance, and socio-economic benefits.

**Collaborators:** Ruth DeDries, Seme Yoon

**Local partners:** Boond

**Funding:** Earth Institute, Columbia University

Understanding and Improving Clean Technology Adoption: Evidence from Solar Lantern Sales in Uttar Pradesh, India

**Summary:** This field experiment offers solar lanterns to rural households. The price, marketing approach, and contractual terms are randomly assigned to evaluate the determinants of technology adoption.

**Collaborators:** Milind Kandlikar, Seme Yoon

**Local partners:** Boond

**Funding:** University of British Columbia

Improving Livelihoods in the Informal Sector: Solar Lighting for Street Vendors in Bihar, India

**Summary:** This field experiment uses a central charging station model to provide street vendors with affordable and effective solar lighting solutions. In addition to evaluating the social and economic effects of the intervention, we examine socio-political dynamics in the urban informal sector over a period of multiple years.

**Collaborators:** David Szakonyi

**Local partners:** NIDAN

**Funding:** International Growth Centre, Bihar Program, Aalto University

Mobilizing Waste Pickers in the Slums of New Delhi, India

**Summary:** This field experiment investigates the effectiveness of different techniques for mobilizing waste pickers in a slum in New Delhi, India. The goal of the project is to help a local non-governmental organization better serve the needs of a marginalized community and offer scientific insights into what motivates people to engage in collective action.

**Collaborators:** Chao-yo Cheng

**Local partners:** Chintan

**Funding:** Department of Political Science, Columbia University

Solar Microgrids in Uttar Pradesh, India

**Summary:** This study tests different microgrid models for rural electrification. In collaboration with solar engineers from Aalto University and an Indian solar service provider, Boond Engineering and Development, we set up three different microgrid models in the Unnao district of Uttar Pradesh, India. We collect detailed data on customer satisfaction and electricity use on a regular basis over a period of 12 months. The study is a rigorous pilot study of new techno-social electrification models and also sheds light on the behavioral aspects of off-grid electrification.

**Collaborators:** Anthony D'Agostino, Peter Lund

**Local partners:** Boond

**Funding:** Aalto University, Fortum Corporation

Social Learning, Gender, and Willingness to Pay for New Technology: A Field Experiment on Solar Lanterns

**Summary:** This study examines the role of social networks in the adoption of new technology. We measure willingness to pay for solar lanterns across treatment conditions that identify the effect of information dissemination through different social networks, with a particular emphasis on gender differences and the role of incentives given to the agents providing information.

**Collaborators:** Yonas Alem, Eugenie Dugoua

**Local partners:** NA

**Funding:** Department of Economics, University of Gothenburg

## Original Data

Fossil fuel subsidies in emerging economies, 1990-2014

**Status:** Data collection in progress

Global dataset of rural and urban electricity access, 1960-2014

**Status:** Data collection in progress

Survey of irrigation practices, attitudes, and policy preferences in rural India

**Status:** data to be made public in the fall of 2016

Survey of energy access and poverty in six major deprived states of India

**Status:** data to be made public in the fall of 2016

Content database of the WTO Committee on Trade and Environment, 1995-2012

**Status:** Pending publication of journal article

Global dataset of national environmental ministries, 1970-2009

**Status:** Data available

Functional classification of international organizations, 1815-2004

**Status:** Data available

Accession rules for international organizations, 1815-2004

**Status:** Data available

## Research Grants

Rural Electricity Supply: Commodity or Entitlement (Center on Global Energy Policy), 2016

Improving Accountability in Electricity Supply: A Field Experiment in Rural India (Earth Institute), 2016

Improving Accountability in Electricity Supply: A Field Experiment in Rural India (Institute for Social and Economic Research and Policy), 2016

A Global Database of Rural Electrification (International Growth Centre, Research Programme), 2015

A Frugal Innovation Approach to Dynamic Electricity Pricing in Rural India (The New Global, Aalto University), 2015

Social Learning, Gender, and Willingness to Pay for New Technology: A Field Experiment on Solar Lanterns (Department of Economics, University of Gothenburg), 2015

Explaining Dysfunctional Policy: Why Do Governments Offer Costly and Polluting Fossil Fuel Subsidies (Institute for Social and Economic Research and Policy, Columbia University), 2014

Understanding Energy Technology Adoption in Rural India: The Case of Diesel and Electric Pumpsets for Groundwater Irrigation (Earth Institute, Columbia University), 2014

A Comprehensive Survey of Rural Energy Access and Poverty in Six Major Deprived States of India (ClimateWorks and Shakti Sustainable Energy Foundation), 2014

- Pilot Study of Solar Microgrids in Uttar Pradesh (Aalto University and Fortum Corporation), 2014
- Collaboration on Microgrid Interventions to Promote Rural Electrification (SPEED India, New Delhi), 2013
- Rural Electrification with Off-Grid Community Microgrids: An Impact Evaluation in Uttar Pradesh, India (International Growth Centre, India Office), 2013
- The Benefits of Solar Technology Adoption for Street Vendors in Bihar (International Growth Centre, Bihar Office), 2013
- Parameters of Sustainable Human Development: A Review of the Literature in Political Science (Earth Institute, Columbia University), 2013
- Solar Home Systems and Rural Electrification in India: Promoting the Use of a Sustainable Energy Technology (Earth Institute, Columbia University), 2013
- Social Aspects of Solid Waste Management in Dar es Salaam (Embassy of Finland, Tanzania), 2013
- Promoting Clean Energy in India: From Local Needs to Community Action (Earth Institute, Columbia University), 2012
- Promoting Solar Lighting in Rural India: From Local Needs to Public Policy (Institute for Social and Economic Research and Policy, Columbia University), 2012
- Junior Faculty Research Infrastructure Grant (Department of Political Science, Columbia University), 2012

## External Thesis Reader

Virgil Ian Stanford, George Mason University, November 2014

## Consulting, Advising, and Service

- Bangladesh Rural Electrification Board, 2016
- Training and Technology Transfer Global, 2016
- Sustainability Czar, Department of Political Science, Columbia University, 2014
- Customer Experience, Mera Gao Power, 2014
- Impact Evaluation, SolarAid, 2014
- Project Strategy, Nidan, 2014
- Business Development, Boond Engineering and Development, 2014
- Clean Energy Finance, New Ventures India, 2013
- Defining and Measuring Energy Access for Socio-Economic Development, World Bank, 2012
- Major Emitters Research Program, Finnish Institute of International Affairs, 2009
- Prime Minister's Office, Government of Finland, 2008

## Editorial Boards

*Global Challenges*  
*Environment and Planning C*  
*International Interactions*  
*Review of Policy Research*

## Review Committees

Midwest Political Science Association, Best Paper in International Relations, 2013 Annual Meeting

## Invited Presentations and Conference Organization

Vanderbilt University Law School, April 2017 (invited)  
 Jinan University, Guangzhou, China, March 2017 (invited)  
 Intellisia Institute, China, March 2017 (invited)  
 National University of Singapore, Conference on BRICS in the World Economy, March 2017 (invited)  
 National University of Singapore, March 2017 (invited)  
 University of Rochester, March 2017 (invited)  
 University of Connecticut, February 2017 (invited)  
 College of William and Mary, February 2017 (invited)  
 University of California, Santa Barbara, January 2017 (invited)  
 EPIC India, New Delhi, India, January 2017  
 Delhi School of Economics, New Delhi, India, January 2017  
 Council on Energy, Environment and Water, New Delhi, India, January 2017  
 World Bank South Asia, New Delhi, India, January 2017,  
 Indian Institute of Dalit Studies, New Delhi, India, January 2017  
 Rajiv Gandhi Institute for Contemporary Studies, New Delhi, India, January 2017  
 National University of Educational Planning and Administration, New Delhi, India, January 2017  
 Morsel Research and Development, Lucknow, India, January 2017

University of Strathclyde, November 2016  
 Princeton University, Social Science Research Council Climate Workshop, November 2016  
 Middlebury College, October 2016  
 Princeton University, October 2016  
 University of Oslo, Political Science, October 2016  
 University of Oslo, Economics, October 2016  
 Bocconi University, September 2016  
 Intellisia Institute, China, July 2016 [virtual presentation]  
 Yale University, China-U.S. Renewable Energy Forum, April 2016  
 Princeton University, Workshop on Contested Multilateralism, April 2016  
 World Bank, April 2016  
 Columbia University, Workshop on South Asian Politics, April 2016  
 Columbia University, Interdisciplinary Speed Talks, March 2016  
 Johns Hopkins SAIS, March 2016  
 University of Pennsylvania, Workshop on Indian Politics, March 2016  
 SPEED India, New Delhi, India, January 2016



Indian Institute of Dalit Studies, New Delhi, India, January 2016  
Council on Energy, Environment and Water, New Delhi, India, January 2016  
Indian Institute of Management, Ahmedabad, India, January 2016

Columbia University, Center on Global Energy Policy, November 2015  
Columbia University, Laboratory for Sustainable Societies Workshop, November 2015  
International Growth Centre, Conference on Energy and Growth, November 2015  
Columbia University, Sustainable Development Workshop, October 2015  
Columbia University, Workshop on Rural Energy Poverty, October 2015  
Intellisias Institute, China, August 2015 [virtual presentation]  
International Growth Centre – India, New Delhi, India, July 2015  
Indian Institute of Dalit Studies, New Delhi, India, July 2015  
Workshop on Energy Subsidies, Brussels, June 2015  
Brown University, April 2015  
Columbia University, Center on Global Energy Policy, April 2015  
University of Macau, March 2015  
Asan Institute, Seoul, March 2015  
Yonsei University, Seoul, March 2015  
The Climate Group, Beijing, March 2015  
Tsinghua University, March 2015  
National Chengchi University, Taipei, March 2015  
Chinese University of Hong Kong, March 2015  
Rutgers University, March 2015  
Workshop on Experimental Governance and Climate Change, Columbia University, March 2015  
Columbia University, Saltzman Institute of War and Peace Studies, February 2015  
Yale University, February 2015  
Columbia University, Quantitative Methods for Social Sciences, January 2015  
University of Pennsylvania, January 2015  
Shakti Sustainable Energy Foundation, New Delhi, January 2015  
Delhi School of Economics, New Delhi, January 2015  
The Climate Group, New Delhi, January 2015  
cKinetics, New Delhi, January 2015  
IDInsight, Patna, January 2015  
Asian Development Research Institute, Patna, January 2015

Aalto Energy Garage, Finland, December 2014  
Helsinki Center of Economic Research, Finland, December 2014  
Aalto University School of Business, Finland, December 2014  
University of Tampere, Finland, December 2014  
Riverside Church, Seminar on Divestment, November 2014  
University of Oregon, November 2014  
University of Oxford, October 2014  
London School of Economics, October 2014  
The Climate Group, London, October 2014  
University of Glasgow, October 2014 [virtual presentation]  
University of Pittsburgh, October 2014  
Workshop on Global Environmental Regulation, Columbia University, October 2014

Sierra Club, Washington DC, September 2014  
George Mason University, September 2014  
Workshop on Innovation and Business in India, Aalto University, August 2014 [virtual presentation]  
Workshop on Climate Agreements, Columbia University, April 2014  
Advanced Consortium on Cooperation, Conflict, and Complexity, Columbia University, April 2014  
Yale University, April 2014  
Environmental Film Festival at Yale, April 2014  
Earth Institute Seed Funding Symposium, Columbia University, March 2014  
Princeton University, February 2014  
United Nations Panel on Peace and Sustainable Development, February 2014

Aalto Science Institute, Finland, December 2013  
Aalto University, Finland, December 2013  
Experiments in Governance and Politics, Columbia University November 2013  
Stanford University, November 2013  
Massachusetts Institute of Technology, October 2013  
Yale University, October 2013  
University of St. Gallen, Switzerland, July 2013  
International Growth Centre – Bihar, Growth Conference, Patna, India, July 2013  
Council on Energy, Environment and Water, New Delhi, India, June 2013  
Mercator Research Institute on Global Commons and Climate Change, Berlin, June 2013  
Social Science Research Center, Berlin, June 2013  
Global Climate Governance, Washington DC, May 2013  
Aalto University, Finland, May 2013  
Government Institute for Economic Research, Finland, May 2013  
London School of Economics, April 2013  
New York University, Abu Dhabi, April 2013  
ETH Zürich, April 2013  
Ardhi University, Tanzania, March 2013  
University of Dar es Salaam, March 2013  
Uongozi Institute, Tanzania, March 2013  
Indian Institute of Technology, Bombay, February 2013

Princeton University, December 2012  
Princeton University, November 2012  
TERI University, New Delhi, October 2012  
Woodrow Wilson International Center for Scholars, September 2012  
Rutgers University, March 2012

Princeton University, December 2011  
University of Potsdam, Germany, July 2011  
University of Hamburg, Germany, July 2011  
Free University of Berlin, Germany, May 2011  
University of Rochester, April 2011  
McGill University, March 2011  
Yale University, April 2011

University of Chicago, November 2010  
College of William and Mary, November 2010  
New York University, October 2010  
Yale University, February 2010

Lucca Institute for Advanced Studies, Italy, December 2009  
Princeton University, October 2009  
University of Tampere, Finland, April 2009

## Referee

*African Journal of Environmental Science and Technology*  
*African Journal of Political Science and International Relations*  
*American Journal of Political Science*  
*American Political Science Review*  
*British Journal of Political Science*  
*Business Strategy Series*  
*Climatic Change Letters*  
*Climate Policy*  
*Climatic Change*  
*Comparative Political Studies*  
*Conflict Management and Peace Science*  
*Contemporary Economics*  
*Ecological Economics*  
*Economics and Politics*  
*Emerging Markets Finance and Trade*  
*Energy Economics*  
*Energy Policy*  
*Energy Research and Social Science*  
*Energy Science and Engineering*  
*Energy Strategy Reviews*  
*Environment and Planning C*  
*Environment, Development and Sustainability*  
*Environment Economics and Policy Studies*  
*Environmental Innovation and Societal Transitions*  
*Environment and Resource Economics*  
*Environmental Politics*  
*European Political Science Review*  
*European Union Politics*  
*Foreign Policy Analysis*  
*Global Challenges*  
*Global Environmental Change*  
*Global Environmental Politics*  
*Global Policy*  
*Governance*  
*International Environmental Agreements*  
*International Interactions*

*International Organization*  
*International Political Science Review*  
*International Spectator*  
*International Studies Quarterly*  
*International Studies Review*  
*International Theory*  
*Journal of the Association of Environmental and Resource Economists*  
*Journal of Cleaner Production*  
*Journal of Conflict Resolution*  
*Journal of Common Market Studies*  
*Journal of Environmental Economics and Management*  
*Journal of Environmental Management*  
*Journal of Policy Analysis and Management*  
*Journal of Politics*  
*Journal of Public Policy*  
*Kosmopolis*  
*Mitigation and Adaptation of Strategies for Global Change*  
*Natural Resources Forum*  
*Policy Sciences*  
*Policy Studies Journal*  
*Political Communication*  
*Political Research Quarterly*  
*Political Science Quarterly*  
*Political Studies*  
*Politics*  
*Post-Soviet Affairs*  
*Rationality and Society*  
*Research and Politics*  
*Resource and Energy Economics*  
*Review of Development Economics*  
*Review of International Organizations*  
*Review of International Political Economy*  
*Review of Policy Research*  
*Science*  
*Social Forces*  
*Sustainable Energy Technologies and Assessments*  
*Utilities Policy*  
*Weather, Climate and Society*  
*Wiley Interdisciplinary Reviews: Energy and Environment*  
*World Politics*

Cambridge University Press

MIT Press

Routledge

University of Chicago Press

Swiss National Science Foundation

## References

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