

MATTHEW A. SHAPIRO

(updated February 25, 2020)

Personal

Associate Professor of Political Science
Affiliate Associate Professor, Stuart School of Business
Illinois Institute of Technology
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Areas

Northeast Asian innovation systems
Environmental and energy policies
Political communication

Education

PhD Political Economy & Public Policy, 2008, University of Southern California
MA Economics, 2006, University of Southern California
MA Korean Studies, 2001, Yonsei University GSIS, Seoul, Korea
BA Political Science, 1994, University of California at San Diego

Publications

Articles

1. Steve Hung Lam Yim, Yefu Gu, Matthew A. Shapiro, and Brent Stephens (2019) “Air Quality and Acid Deposition Impacts of Local Emissions and Transboundary Air Pollution in Japan and South Korea,” *Atmospheric Chemistry and Physics*, 19: 13309-13323.
2. Vinesh Kannan, Matthew A. Shapiro, and Mustafa Bilgic (2019) “Hindsight Analysis of the Chicago Food Inspection Forecasting Model” *Proceedings of the AAAI Fall Symposium Series (FSS) 2019: Artificial Intelligence in Government and Public Sector*, Arlington, Virginia, USA, arXiv:1910.04906v1.
3. Libby Hemphill and Matthew A. Shapiro (2019) “Appealing to the Base or to the Moveable Middle? Incumbents’ Partisan Messaging Before the 2016 U.S. Congressional Elections,” *Journal of Information Technology and Politics*, 16(4): 325-341.
4. Matthew A. Shapiro and Toby Bolsen (2019) “Korean Perceptions of Transboundary Air Pollution and Domestic Coal Development: Two Framing Experiments,” *Energy Policy*, 126: 333-342.
5. Matthew A. Shapiro and Toby Bolsen (2018) “Transboundary Air Pollution in South Korea: An Analysis of Media Frames and Public Attitudes and Behavior,” *East Asian Community Review*, 1(3-4): 107-126.
6. Matthew A. Shapiro, Elizabeth Brunner, and Hui Li (2018) “Strength in Numbers and Voice: An Assessment of the Networking Capacity of Chinese ENGOs,” *Journal of Contemporary Eastern Asia*, 17(2): 147-175.
7. Matthew A. Shapiro (2018) “The Triple Helix within the Lithium-Ion Battery Research Network: A Case Study of JCESR,” *Translational Materials Research*, 5(4): 044001.
8. Xanat Vargas Meza, Matthew Shapiro, and Han Woo Park (2018) “Climate Change Emotions on YouTube: The Case of ‘Before the Flood,’” *Journal of the Korean Data Analysis Society*, 20(4): 1697-1708.

9. Toby Bolsen and Matthew A. Shapiro (2018) "The U.S. News Media, Polarization on Climate Change, and Pathways to Effective Communication," *Environmental Communication*, 12(2): 149-163.
10. Matthew A. Shapiro and Han Woo Park (2018) "Climate Change and YouTube: Deliberation Potential in Post-Video Discussions," *Environmental Communication*, 12(1): 115-131.
11. Matthew A. Shapiro and Libby Hemphill (2017) "Agenda Building & Indexing: Does the U.S. Congress Direct *New York Times* Content through Twitter?" *Policy & Internet*, 9(1): 109-132.
12. Matthew A. Shapiro and Daniel Bliss (2016) "Rewards and Consequences: Redistricting on the Chicago City Council," *Local Government Studies*, 42(1): 139-163.
13. Matthew A. Shapiro and Han Woo Park (2015) "More than Entertainment: YouTube and Public Responses to the Science of Global Warming and Climate Change," *Social Science Information*, 54(1): 115-145.
14. Matthew A. Shapiro, Libby Hemphill, Jahna Otterbacher, and Han Woo Park (2015) "Twitter and Political Communication in Korea: Are Members of the Assembly Doing What They Say?" *Journal of Alternative Perspectives in the Social Sciences*, 6(3): 281-301.
15. Matthew A. Shapiro (2014) "Establishing 'Green Regionalism': Environmental Technology Generation across East Asia and Beyond," *Journal of Contemporary Eastern Asia*, 13(2): 41-56.
16. Matthew A. Shapiro (2014) "Regionalism's Challenge to the Pollution Haven Hypothesis: A Study of Northeast Asia and China," *The Pacific Review*, 27(1): 27-47.
17. Toby Bolsen, Thomas J. Leeper, and Matthew A. Shapiro (2014) "Doing What Others Do: Norms, Science, and Collective Action on Global Warming," *American Politics Research*, 42(1): 65-89.
18. Matthew Haigh and Matthew A. Shapiro (2013) "Do Environmental Policy Instruments Influence Fiduciaries' Decisions?" *Environment & Planning A*, 45(4): 853-871.
19. Libby Hemphill, Jahna Otterbacher, and Matthew A. Shapiro (2013) "What's Congress Doing on Twitter?" *Proceedings of the 2013 ACM conference on Computer Supported Cooperative Work, CSCW*, New York: ACM Press.
20. Jahna Otterbacher, Matthew A. Shapiro, and Libby Hemphill (2013) "Interacting or Just Acting? A Case Study of European, Korean, and American Politicians' Interactions with the Public on Twitter," *Journal of Contemporary Eastern Asia*, 12(1): 5-20.
21. Matthew A. Shapiro and Jeffrey B. Nugent (2012) "Institutions and the Sources of Innovation: The Determinants and Effects of International R&D Collaboration," *International Journal of Public Policy*, 8(4-6): 230-250.
22. Matthew A. Shapiro (2012) "Receiving Information at Korean and Taiwanese Universities, Industry, and GRIs," *Scientometrics*, 90(1): 289-309.
23. Matthew A. Shapiro and Han Woo Park (2012) "Regional Development in South Korea: Accounting for Research Area in Centrality and Networks," *Scientometrics*, 90(1): 271-287.
24. Matthew Haigh and Matthew A. Shapiro (2012) "Carbon Reporting: Does It Matter?" *Accounting, Auditing, and Accountability Journal*, 25(1): 105-125.
25. Matthew A. Shapiro and Keenan Gottschall (2011) "Northeast Asian Environmentalism: Policies as a Function of ENGOS," *Asian Politics and Policy*, 3(4): 551-567.
26. Matthew A. Shapiro, Han Woo Park, and Min-Ho So (2010) "Quantifying the National Innovation System: Inter-regional Collaboration Networks in South Korea," *Technology Analysis and Strategic Management*, 22(7): 845-857.

27. Matthew A. Shapiro (2009) "Korea's Environmental Sustainability Leadership in East Asia and Beyond," *Korea Observer*, 40(4): 735-762.
28. Matthew A. Shapiro (2008) "The Triple Helix Paradigm in Korea: A Test for New Forms of Capital," *International Journal of Technology Management and Sustainable Development*, 6(3): 171-191.

Chapters

29. Matthew A. Shapiro, Toby Bolsen, and Anna McCaghren Fleming (2018) "Communicating about Clean Energy and Efficiency Policies," in Matthew C. Nisbet, Shirley S. Ho, Ezra Markowitz, Saffron O'Neill, Mike S. Schafer, and Jagdish Thaker's (Eds) *Oxford Encyclopedia of Climate Change Communication*, Oxford: Oxford University Press.
30. Seok Kang, Seungahn Nah, and Matthew A. Shapiro (2018) "Political Communication," in Kyu Ho Youm and Nojin Kwak's (Eds) *Korean Communication, Media, and Culture: An Annotated Bibliography*, Lanham: Lexington Books.
31. Matthew A. Shapiro (2018) "China-Based Air Pollution and Epistemic Community Building in the Northeast Asian Region," in Michelle Ann Miller, Mike Douglass, and Matthias Garschagen's (Eds) *Crossing Borders: Governing Environmental Disasters in a Global Urban Age in Asia and the Pacific*, New York and Heidelberg: Springer.
32. Toby Bolsen and Matthew A. Shapiro (2017) "Strategic Framing and Persuasive Messaging to Influence Climate Change Perceptions and Decisions," in Matthew C. Nisbet, Shirley S. Ho, Ezra Markowitz, Saffron O'Neill, Mike S. Schafer, and Jagdish Thaker's (Eds) *Oxford Encyclopedia of Climate Change Communication*, Oxford: Oxford University Press.
33. Matthew A. Shapiro, Libby Hemphill, and Jahna Otterbacher (2017) "Pussyfooting around November? A Longitudinal Analysis of Politicians' Twitter Use in 2014," in Tauna S. Sisco, Jennifer C. Lucas, and Christopher J. Galdieri's (Eds) *Political Communication & Strategy: Consequences of the 2014 Midterm Elections*, Akron: University of Akron Press.
34. Matthew A. Shapiro (2014) "Recycling: The Politics, the Science, and the Technology," in Brent S. Steel's (Ed.) *Science and Politics: An A-to-Z Guide to Issues and Controversies*, Washington, DC: CQ Press.
35. Matthew A. Shapiro (2012) "Long-Run Protection: Determining Key Features of Growth and Sustainability in Northeast Asia," in Jorg Mahlich and Werner Pascha's (Eds) *Korean Science and Technology in an International Perspective*, New York and Heidelberg: Springer.
36. Matthew A. Shapiro (2012) "Environmental Legislation in East Asia: Rationale and Significance," in Zhiqun Zhu's (Ed.) *New Dynamics in East Asian Politics: Security, Political Economy, and Society*, New York and London: Continuum International.
37. Matthew A. Shapiro (2011) "The Triple Helix Paradigm in Korea and Taiwan: A Test for New Forms of Capital," in Mohammed Saad and Girma Zawdie's (Eds) *Theory and Practice of the Triple Helix Model in Developing Countries*, New York: Routledge.
38. Matthew A. Shapiro (2007) "Public-Private R&D Collaboration in Korea: A Survey of Public Sector Institutes," in Jorg Mahlich and Werner Pascha's (Eds) *Technology and Innovation in Korea*, New York and Heidelberg: Springer.

Reports

39. Matthew A. Shapiro (2019) "Transboundary Air Pollution in Northeast Asia and Lessons from North America," *Global Asia*, 14(4): 8-13.
40. Matthew A. Shapiro (2016), *Transboundary Air Pollution in Northeast Asia: The Political Economy of Yellow Dust, Particulate Matter, and PM_{2.5}*, KEI Academic Paper Series.

41. Matt Lithgow and Matthew A. Shapiro (2015), *Recycling Policies in Chicago and Beyond: Failures in Information Collection and Provision*, Chicago Recycling Coalition White Paper.
42. Matthew A. Shapiro (2014), *International Collaboration and Green Technology Generation: Assessing the East Asian Environmental Regime*, EAI Fellows Program Working Paper Series No. 46.
43. Matthew Haigh and Matthew A. Shapiro (2011), *Financial Institutions: Taking Greenhouse Gases into Account*, UK Department for Environment, Food and Rural Affairs.
44. Matthew Haigh and Matthew A. Shapiro (2010), *Investor Demand for Corporate Sustainability Reporting*, UK Department for Environment, Food and Rural Affairs.

Honors

- NSF Early-concept Grant for Exploratory Research on AI and Society, 2019-21
- Lewis College Research Support Grant, Illinois Tech, 2019-20
- Calamos Research Award, Illinois Tech's Department of Humanities, 2019
- IMC Award – Data Innovation, Social Network, and Convergence (DISC) Conference, 2018
- Illinois Tech Wagner Institute for Sustainable Energy Research ISF Grant, 2017-18
- Korea Research Foundation Grant (MEST), 2017
- Ewha University-Korean American Communication Association Research Award, 2016-18
- US-Korea NextGen Scholar, CSIS and USC Korean Studies Institute, 2015-16
- East Asia Institute Research Fellowship, 2013-14
- Asiatic Research Institute Research Fellowship, Korea University, 2014
- Illinois Tech Social Network Research Award, (1) 2012-13, (2) 2011-12
- UK Department for Environment, Food & Rural Affairs Research Award, 2010
- Final Year Dissertation Fellowship, USC College of LAS, 2007-08
- Strategic Theme Research Initiative Research Assistantship, USC College of LAS, 2006-07
- Future Professoriate Fellow, USC Center for Excellence in Teaching, 2006-07
- Teaching Assistant Fellow, USC Center for Excellence in Teaching, 2006-07
- Foreign Language & Area Studies Dissertation Fellowship, USC & US Dept. of Ed., 2005-06
- Urban Initiative Dissertation Fellowship, USC College of LAS, 2005
- Strategic Theme Research Initiative Research Assistantship, USC College of LAS, 2004
- Woojung Scholarship, Yonsei University GSIS, 1999-2001

Research and Teaching

Associate Professor, 2014-present

Assistant Professor, 2008-2014

Director, Applied Analytics Program, 2015-16

Illinois Institute of Technology, Department of Social Sciences

Courses taught: East Asian Political Economy; Energy Policy; Innovation Policy; Politics & Public Policy; Politics of Science & Technology; Research Methods for the Social Sciences

Research Fellow / Research Affiliate

1. Joint Center for Energy Storage Research, Argonne National Laboratory, 2016-present
2. East Asia Institute Research Fellow, East Asia Institute, Seoul, Korea, 2013-14
3. Asiatic Research Institute Research Fellow, ARI, Korea University, summer/fall 2014
4. Climate Disclosure Standards Board, United Kingdom, 2010-2011
5. World Class University, YeungNam University, 2010-2013

6. Integrated Research Division, Industrial Economics and Knowledge Center, ITRI, Hsinchu, Taiwan, 2005
7. IT Services Research Division, IT Strategy Research Group, Technology Innovation Research Team, ETRI, Daejeon, Korea, 2005

Instructor, 2006-2007

California State University at Long Beach, Department of Economics

Courses taught: International Economics; International Finance

Presentations

Symposia and special conferences

- Atlanta Conference on Science and Innovation Policy, Atlanta, 2019
- Asia Environmental Forum & Clean Air International Forum, Suwon, Korea, 2019
- ASIALICS Conference, Sungkyunkwan University, Seoul, Korea, 2019
- Asia-Pacific Public Policy Network Conference, HKUST, Hong Kong, 2019
- DISC-WATEF International Conference, Sungkyunkwan University, Seoul, Korea, 2018
- Carbon Management Symposium, IIT, Chicago, 2018
- Seminar on Particulate Matter, Health Impacts and Transboundary Issues, Paris, 2017
- International Conference on Public Policy, NUS, Singapore, 2017
- Conference on Communication and the Environment, University of Leicester, UK, 2017
- Crossing Borders Conference, NUS, Singapore, 2015
- Atlanta Conference on Science and Innovation Policy, Atlanta, 2015
- Computational Social Science Summit, Northwestern University, Evanston, 2015
- American Elections 2014, New Hampshire Institute of Politics, Manchester, 2015
- Economy and Exploration Forum, Museum of Science and Industry, Chicago, 2014
- The Infrastructures of Creativity, IIT, Chicago, 2014
- IIT Lewis College of Human Sciences Conference on Networks, IIT, Chicago, 2013
- Rising Stars of Korean Studies Workshop, USC, Los Angeles, 2012
- Creating Public Value Conference, University of Minnesota, Minneapolis, 2012
- Culture, Politics & Climate Change, University of Colorado, Boulder, 2012
- UIC Summer Institute on Sustainability and Energy, UIC, Chicago, 2012
- ASPA-KAPA International Conference, Seoul, Korea, 2011
- Innovation and Technology in Korea, Vienna, Austria, 2009
- Environmental Policy Conf., University of Maryland & APPAM, Seoul, Korea, 2009
- Beyond Kyoto Conference, University of Aarhus, Aarhus, Denmark, 2009
- Science and Technology in Society Conference, AAAS, Washington, DC, 2007
- Triple Helix Paradigm for Development, Univ. of West England, Bristol, UK, 2006
- Innovation and Technology in Korea, Vienna, Austria, 2005

Professional association conferences

- American Economic Association: 2014
- American Political Science Association: 2006-07, 2009-10, 2013, 2016, 2018
- Association for Asian Studies: 2017 (Seoul)
- Association for Education in Journalism and Mass Communication: 2012, 2017
- Midwest Political Science Association: 2005-06, 2008-2016, 2018-20
- Triple Helix Association: 2011, 2016
- Western Political Science Association: 2009, 2012-13, 2020
- Western Economic Association: 2006, 2008

Lectures

- 2019: Chinese University of Hong Kong, Hong Kong; Green Foundation, Seoul, Korea; Yeungnam University, Daegu, Korea
- 2018: Asiatic Research Institute, Korea University, Seoul, Korea; Asan Institute for Policy Studies, Seoul, Korea; IIT Monthly Sustainability Forum, Chicago
- 2017: Chicago Conservation Corps
- 2016: KAIST, Daejeon, Korea; Asiatic Research Institute, Korea University, Seoul, Korea; Korea Economic Institute, Washington, D.C.
- 2014: Keio University, Tokyo, Japan; Peking University, Beijing, China; National Taiwan University, Taipei, Taiwan; East Asia Institute, Seoul, Korea; Asiatic Research Institute, Korea University, Seoul, Korea; IIT Stuart School of Business (2), Chicago
- 2013: Asian Triple Helix Society Annual Conference, Songdo (Jan.) and Daegu (Dec.)
- 2005: Tsing Hua University, School of Management of Technology, Hsinchu, Taiwan

Professional Organizations and Service

Editorial board member

East Asian Community Review; International Journal of Technology Management & Sustainable Development; Journal of Contemporary Eastern Asia; Quality & Quantity; Science Communication

Ad hoc reviewer

The Academy of Management; American Politics Research; British Journal of Political Science; Contemporary Economic Policy; Asian Journal of Communication; Congress & the Presidency; Energy Policy; Environment & Planning C; Environment, Development, & Sustainability; Environmental Communication; Environmental Engineering and Management Journal; Environmental Politics; International Environmental Agreements: Politics, Law and Economics; International Journal of Environmental Research and Public Health; International Journal of Public Policy; International Journal of Press/Politics; International Journal of Manufacturing Technology and Management; International Relations of the Asia-Pacific; Journal of Asian & African Studies; Journal of Communication; Journal of Contemporary Asia; Journal of Experimental Political Science; Journal of Information Technology & Politics; Journal of the Association for Information Science & Technology; Journal of World Business; Management Research Review; Nature Climate Change; New Media & Society; The Pacific Review; PLOS One; Policy & Internet; Political Research Quarterly; Politics & Governance; Public Understanding of Science; Qualitative Sociology; Quality & Quantity; Research Policy; Review of Policy Research; Science Communication; Science and Public Policy; Scientometrics; Social Science Information; Social Science Quarterly; Social Studies of Science; Sustainability; Technology Analysis & Strategic Management; ACM Transactions on Social Computing; Waste Management

Advising

Jordan McDonald (Ph.D. committee), Rodney Vallejo (Ph.D. committee, 2019), Adam Fominaya (Ph.D. committee), Virgile Landeiro dos Reis (Ph.D. committee, 2018), Andrew Adams (College of Science Undergraduate Research Fellowship, 2018), Kelly Levin (Ph.D. committee), Samantha Stern (Ph.D. committee, 2018), Catherine Savage (Ph.D. committee), Joyce Konadu Mansah Fokuo (Ph.D. committee, 2017), Sarah E. Baumgartner (Ph.D. committee, 2017), Chunying Huang (visiting Ph.D. candidate, 2014-15), Wingman Fong (Ph.D. committee,

2015), Jessica Pieczynski (Ph.D. committee, 2015), Kristin Kosyluk (Ph.D. committee, 2014), Abby Wassel (Ph.D. committee, 2014), Maia Feigon (Ph.D. committee, 2014), Brendan Neuman (Ph.D. committee, 2014), Ed Scott (Ph.D. committee, 2014), Mark Tawnye (Ph.D. committee, 2012), W. David Work (College of Science and Letters Undergraduate Research Fellowship, 2012; Social Networking Initiative, 2012), Syeda Fatima Rizvi (International Research Fellowship, 2010), Keenan Gottschall (Undergraduate Research Fellowship, 2009-2010; College of Science and Letters Undergraduate Research Fellowship, 2010), Bernat Kunzi (Undergraduate Research Fellowship, 2008-2009)

Service to the institution

- Research Council academic unit representative, 2013-present
 - Urban Futures committee member, 2019-present
 - Undergraduate Research committee member, 2019-present
- Science and Technology Studies major committee member, 2015-present
- Applied Economics major committee member, 2012-13, 2019-present
- Applied Analytics major committee member, 2012-present (chair, 2012-14)
- Sustainability minor committee member, 2019-present
- Academic Unit Committee on Promotion and Tenure chair, 2019
- Organizer/moderator of Issues of Urban Reinvention panel, June 7, 2019
- Faculty Review Committee for Education and Research Initiative Fund, 2019
- Faculty Review Committee for WISER ISFG Program, 2018
- Faculty Review Committee for Education and Research Initiative Fund, 2018
- Faculty Review Committee for Starr and Fieldhouse Research Fellowship, 2018
- Technology for Development graduate program committee member, 2011-12
- Faculty Council academic unit representative, 2009-12, 2015
 - Financial Affairs committee chair, 2011-12
 - Financial Affairs committee member, 2010-11
- Undergraduate Studies Committee academic unit representative, 2008-09

Service to the community

- Chicago Recycling Coalition board member, 2012-present