

## MATTHEW A. SHAPIRO

(updated March 17, 2022)

### Personal

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Professor of Political Science  
Illinois Institute of Technology  
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### Areas

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Northeast Asian innovation systems  
Environmental and energy policies  
Political communication

### Education

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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

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#### Articles

1. Siva K. Balasubramanian, Mustafa Bilgic, Aron Culotta, Libby Hemphill, Anita Nikolich, and Matthew A. Shapiro (2022) "Leaders or Followers? A Temporal Analysis of Tweets from IRA Trolls," *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM '22)*, Menlo Park: AAAI Press.
2. Matthew A. Shapiro, Toby Bolsen, Yungwook Kim (2021) "Air Pollution in Northeast Asia: Can Framing of Public Messages Influence Beliefs and Attributions?" *Asia Pacific Journal of Public Administration*.
3. Matthew A. Shapiro and Masaru Yarime (2021) "Effects of National Affiliations and International Collaboration on Scientific Findings: The Case of Transboundary Air Pollution in Northeast Asia," *Environmental Science and Policy*, 118: 71-85.
4. Ping Liu, Karthik Shivaram, Aron Culotta, Matthew A. Shapiro, Mustafa Bilgic (2021) "The Interaction between Political Typology and Filter Bubbles in News Recommendation Algorithms," *Proceedings of the Web Conference 2021 (WWW '21)*, New York: ACM Press.
5. Matthew A. Shapiro (2020) "Next-Generation Battery Research and Development: Non-Politicized Science at the Joint Center for Energy Storage Research," *Energy Policy*, 145: 111771.
6. 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.
7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. Matthew A. Shapiro and Han Woo Park (2018) "Climate Change and YouTube: Deliberation Potential in Post-Video Discussions," *Environmental Communication*, 12(1): 115-131.
16. Matthew A. Shapiro and Libby Hemphill (2017) "Politicians and the Policy Agenda: Does the U.S. Congress Direct *New York Times* Content through Twitter?" *Policy & Internet*, 9(1): 109-132.
17. Matthew A. Shapiro and Daniel Bliss (2016) "Rewards and Consequences: Redistricting on the Chicago City Council," *Local Government Studies*, 42(1): 139-163.
18. 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.
19. 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.
20. Matthew A. Shapiro (2014) "Establishing 'Green Regionalism': Environmental Technology Generation across East Asia and Beyond," *Journal of Contemporary Eastern Asia*, 13(2): 41-56.
21. 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.
22. 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.
23. Matthew Haigh and Matthew A. Shapiro (2013) "Do Environmental Policy Instruments Influence Fiduciaries' Decisions?" *Environment & Planning A*, 45(4): 853-871.
24. 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.
25. 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.
26. 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.
27. Matthew A. Shapiro (2012) "Receiving Information at Korean and Taiwanese Universities, Industry, and GRIs," *Scientometrics*, 90(1): 289-309.

28. 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.
29. Matthew Haigh and Matthew A. Shapiro (2012) "Carbon Reporting: Does It Matter?" *Accounting, Auditing, and Accountability Journal*, 25(1): 105-125.
30. Matthew A. Shapiro and Keenan Gottschall (2011) "Northeast Asian Environmentalism: Policies as a Function of ENGOs," *Asian Politics and Policy*, 3(4): 551-567.
31. 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.
32. Matthew A. Shapiro (2009) "Korea's Environmental Sustainability Leadership in East Asia and Beyond," *Korea Observer*, 40(4): 735-762.
33. 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

34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.

43. 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

44. Matthew A. Shapiro (2019) "Transboundary Air Pollution in Northeast Asia and Lessons from North America," *Global Asia*, 14(4): 8-13.
45. Matthew A. Shapiro (2016), *Transboundary Air Pollution in Northeast Asia: The Political Economy of Yellow Dust, Particulate Matter, and PM<sub>2.5</sub>*, KEI Academic Paper Series.
46. Matt Lithgow and Matthew A. Shapiro (2015), *Recycling Policies in Chicago and Beyond: Failures in Information Collection and Provision*, Chicago Recycling Coalition White Paper.
47. Matthew A. Shapiro (2014), *International Collaboration and Green Technology Generation: Assessing the East Asian Environmental Regime*, EAI Fellows Program Working Paper Series No. 46.
48. Matthew Haigh and Matthew A. Shapiro (2011), *Financial Institutions: Taking Greenhouse Gases into Account*, UK Department for Environment, Food and Rural Affairs.
49. Matthew Haigh and Matthew A. Shapiro (2010), *Investor Demand for Corporate Sustainability Reporting*, UK Department for Environment, Food and Rural Affairs.

### Honors

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- 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

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Illinois Institute of Technology

Professor of Political Science, from fall 2021

Director, Applied Analytics Program, 2015-16

Affiliate Professor, Stuart School of Business, 2020-present

Faculty Affiliate, Wagner Institute for Sustainable Energy Research, 2012-present

Associate Professor of Political Science, 2014-2021

Assistant Professor of Political Science, 2008-2014

Courses taught: East Asian Political Economy; Energy Policy; Innovation Policy; Politics & Public Policy; Politics of Science & Technology; Program Planning & Evaluation; 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

#### California State University at Long Beach

Instructor of Economics, 2006-2007

Courses taught: International Economics; International Finance

#### Presentations

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##### Symposia and special conferences

- International Leadership Conference, Washington Times and UPF, Washington, D.C., 2021
- Conf. for the Experiment Lab for Public Management Research, KDI, Seoul, Korea, 2020
- Seoul Big Data Forum, Seoul, Korea, 2020
- 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, 2018-21
- Triple Helix Association: 2011, 2016
- Western Political Science Association: 2009, 2012-13, 2020
- Western Economic Association: 2006, 2008

#### **Lectures**

- 2021: Université du Québec à Montréal, Montreal, Canada; Washington Times and Universal Peace Federation, Washington, D.C.
- 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; SN Business & Economics*

##### **Ad hoc reviewer**

*The Academy of Management; American Politics Research; British Journal of Political Science; Contemporary Economic Policy; Asian Journal of Communication; Climatic Change; Congress & the Presidency; Energy Policy; Environment & Planning C; Environment, Development, & Sustainability; Environmental Communication; Environmental Engineering and Management Journal; Environmental Politics; Environmental Science & Policy; Global Environmental Change; Health Communication; Humanities & Social Sciences Communications; International Conference on Social Media & Society; International Environmental Agreements: Politics, Law and Economics; International Journal of Environmental Research and Public Health; International Journal of Manufacturing Technology and Management; International Journal of Press/Politics; International Journal of Public Opinion Research; International Journal of Public Policy; International Relations of the Asia-Pacific; Journal of Asian & African Studies; Journal of Communication; Journal of Cleaner Production; Journal of Contemporary Asia;*

*Journal of Environmental Management; 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; Organization & Environment; 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; Risk Analysis; Science Communication; Science and Public Policy; Scientific Reports; Scientometrics; Social Science Information; Social Science Quarterly; Social Studies of Science; Sociological Forum; Sustainability; Technology Analysis & Strategic Management; Transforming Government; ACM Transactions on Social Computing; Waste Management*

### **Advising**

Melissa Ivins-Lukse (Ph.D. committee), Ping Liu (Ph.D. committee), Andrea B. Bink (Ph.D. committee), Matthew Lauritsen (Ph.D. committee), 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**

- Graduate Studies Committee academic unit representative, 2022-present
- Research Council academic unit representative, 2013-present
  - Urban Futures committee member, 2019-present
  - Undergraduate Research committee member, 2019-present
- Community Engaged Research Coalition member, 2020-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