

Prof. Shanti Gamper-Rabindran

Graduate School of Public & Int'l Affairs, University of Pittsburgh
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ACADEMIC & PROFESSIONAL POSITIONS

Full Professor, University of Pittsburgh, 2022-

Graduate School of Public and International Affairs (primary)

Department of Economics (secondary)

Assistant Professor, 2005-2013, Associate Professor (with tenure), 2013-2022

Technical University of Munich, Bavarian School of Public Policy

August-Wilhelm Scheer Visiting Professor, summer 2019

Arava Institute for Environmental Studies, Israel

Bley Stein Visiting Professor, May 2014

Carnegie Mellon University, Department of Engineering and Public Policy

Visiting Associate Professor, spring 2022, fall 2014; Visiting Assistant Professor 2011-2012

Environmental Protection Agency, consultant, 2011

FIELDS

Political Economy of Environment, Energy and Climate Policy, Sustainable Development

EDUCATION

Ph.D. Economics, Massachusetts Institute of Technology, 2001

Essays in Empirical Environmental Economics

Thesis Committee: Dora Costa, Steve Pischke, Peter Timmer

M. Sc. Environmental Management, Oxford, 1999

Rhodes Scholar

B.A. Jurisprudence, Oxford, 1996

Rhodes Scholar

B.A. Economics and Environmental Science & Public Policy, Harvard 1994

summa cum laude, Phi Beta Kappa

HONORS & AWARDS

Faculty Award for Sustainability, University of Pittsburgh, 2020

-awarded to a faculty member who has contributed significantly to research, education and outreach on sustainability at the university, nationally and globally.

Faculty Fellow for Sustainability, the University of Pittsburgh, 2017

August Wilhelm Scheer Visiting Professorship, summer 2019

\$500,000 in grants from the National Science Foundation, the Environmental Protection Agency Assn. of Public Policy Analysis & Mgt, Best Thesis runner-up, 2001; American Assn. for Geographers, Best Thesis, co-winner, 2001; Martin Fellow for Sustainability, MIT, 2000; MIT, Harvard, and United World College Scholarships, Rhodes Scholar

PROFESSIONAL SERVICE

Member of the National Academy of Sciences, Engineering and Medicine Study Panel on Enhancing the U.S. Chemical Economy through Investments in Fundamental Research, 2020-2022

Economics of Energy & Environmental Policy, policy-oriented journal of the International Association of Energy Economics, incoming editor

Member of the Advisory Council, Ohio River Valley Institute, a regional think tank

Member of the Policy Council, Association for Public Policy Analysis and Management, 2017-2021 (elected)

Plenary Speaker, Italian Association of Environmental and Resource Economists annual meeting, February 2017

RESEARCH

Peer-reviewed book

S. Gamper-Rabindran. *America's Energy Gamble: People, Economy and Planet* (Cambridge University Press, 2022)

Endorsement by Michael E. Mann, climate scientist; Daniel Kammen, energy expert, Daniel Farber, environmental lawyer, and Charles Kolstad, environmental economist.

Book selected for presentation at the Pittsburgh Humanities Festival; reviewed in *Human Ecology*, *Journal of Public Policy and Management* (forthcoming), *Environmental Politics* (forthcoming), *The Extractive Industries and Society*, featured in the ClimatePod podcast and In This Climate podcast.

Peer-reviewed edited book

S. Gamper-Rabindran (ed.) *The Shale Dilemma: A Global Perspective on Fracking and Shale Development*. University of Pittsburgh Press, 2018.

Authored the following chapters:

- 1) Introduction: The Shale Dilemma
- 2) United States: Mixed fortunes: the risks and rewards of developing shale gas
- 3) United States: Should benefits and costs be spread more evenly? Political battles over local government powers, taxation, regulation, and disclosure
- 4) Conclusion: How and why countries decide on shale, and how they can make better decisions

Positively reviewed in the *Energy Journal*, *Journal of Public Policy and Management*, *Energy Research and Social Sciences*, *Energy and Environmental Economics and Policy*, *Journal of Comparative Policy Analysis: Research and Practice*. Featured in National Public Radio, StateImpact Pennsylvania, Allegheny Front, Cultures of Energy podcast, APPAM Policy Wonk podcast

Peer-reviewed Handbook Chapter

S. Gamper-Rabindran. Fracked communities and taxpayers: shale economics in the United States and Argentina. Oxford Handbook of Comparative Environmental Politics (eds. Jeannie Sowers, Stacy VanDeveer, Erika Weinthal), 2021.

Peer-reviewed journal articles and law review articles

S. Gamper-Rabindran. Shifting away from coal power: prioritizing ratepayers and communities vs. shareholders? *Pace Environmental Law Review*. 40(1) 2022. 1-40

S. Gamper-Rabindran, Markets, states and the federal government in the transition to wind energy, *Journal of Land Use and Environmental Law*, 2017.

Kate Neville, Jennifer Baka, Shanti Gamper-Rabindran, Karen Bakker, Stefan Andreasson, Avner Vengosh, Alvin Lin, Jewellord Nem Singh, and Erika Weinthal. Debating unconventional energy: social, political and economic implications, *Annual Review of Environment and Resources*, 42(1) 2017.

S. Gamper-Rabindran. Information collection, access and dissemination for evidence-based shale policies. *Energy Technology*, 2(12): 2014:977-987.

S. Gamper-Rabindran and C. Timmins. Does cleanup of hazardous waste sites raise housing values? Evidence of spatially localized benefits. *Journal of Environmental Economics and Management*, 65 (3) 2013: 345-360.

Research results were presented in a Congressional testimony by the Assistant Administrator, Environmental Protection Agency to the Committee for Transportation and Infrastructure, U.S. House of Representatives, March 28, 2012. Research results were also shared by EPA Administrator Lisa Jackson with her counterpart in Israel.

S. Finger and S. Gamper-Rabindran. Mandatory disclosure of plant emissions into the environment and worker chemical exposure inside plants. *Ecological Economics*, 87, 2013: 124-136.

S. Finger and S. Gamper-Rabindran. Testing the effects of self-regulation on industrial accidents. *Journal of Regulatory Economics*, 43(2) 2013:115-146.

S. Gamper-Rabindran and S. Finger. Does self-regulation reduce pollution? Responsible Care program in the chemical industry. *Journal of Regulatory Economics*, 43(1) 2013: 1-30.

S. Gamper-Rabindran and C. Timmins. Hazardous waste cleanup, neighborhood gentrification, and environmental justice: Evidence from restricted access census block data. *American Economic Review Papers and Proceedings*, May 2011.

S. Gamper-Rabindran, S. Khan and C. Timmins. The impact of piped water provision on infant mortality in Brazil: A quantile panel data approach. *Journal of Development Economics* 92(2) 2010: 188-200; and National Bureau of Economic Research working paper 14365, 2008.

S. Gamper-Rabindran. Did the EPA's voluntary Industrial Toxics program reduce plants' emissions? A GIS analysis of distributional impacts and a by-media analysis of substitution. *Journal of Environmental Economics and Management* 52(1) 2006: 391-410.

S. Gamper-Rabindran. NAFTA and the environment: What can the data tell us? *Economic Development and Cultural Change* 54(3) 2006: 605-633.

R. Godoy, D. Karlan, S. Rabindran, T. Huanca. Do modern forms of human capital matter in primitive economies? Comparative evidence from Bolivia *Economics of Education Review* 24(1) 2005: 45-53.

Draft paper

S. Gamper-Rabindran and J. Ash. 2022. Operationalizing solar projects as an equitable economic development strategy: views of local communities in North Central Appalachia
Long-listed for an award from the Journal of Comparative Policy Analysis for papers presented at the Association of Public Policy and Management annual meeting.

Work-in-progress

Public utility commissions and decarbonization of the electricity grid: opportunities and barriers
Seed grant from the Mascaro Center for Sustainable Innovation, 2022-

Blue hydrogen and carbon capture as an economic development strategy: Should taxpayers take the gamble? Preliminary arguments presented in an op-ed, *The Hill*, September 2022

Peer-reviewed Reports

National Academies of Sciences, Engineering, and Medicine. 2022. The Importance of Chemical Research to the U.S. Economy. Washington, DC: The National Academies Press, Consensus study report. Gamper-Rabindran took the lead in writing and analysis for Chapter 3: Sustainability for the Chemical Economy.

S. Gamper-Rabindran and C. Timmins. Valuing the benefits of Superfund site remediation: Three approaches to measuring localized externalities. Environmental Protection Agency, January 2011.
Related paper: S. Gamper-Rabindran, R. Mastromonaco and C. Timmins, National Bureau of Economic Research WP no.16655, 2011.

Retired working paper

S. Finger and S Gamper-Rabindran. Voluntary versus mandatory standards: Protecting workers from adverse chemical exposure. Center for Industry Studies WP # 36, 2012.

GRANTS

Research grants

National Science Foundation

Co-PIs: Gamper-Rabindran and Stephen Finger

Industry self-regulation in the chemical manufacturing sector

\$228,000. August 2011-14 SES 1127223

National Science Foundation

PI: Gamper-Rabindran

Program evaluation of voluntary pollution reduction programs

\$100,000. January 2004-7 BCS 0351058

Environmental Protection Agency

Co-PIs: Gamper-Rabindran and Chris Timmins

New methods to assess benefits from Superfund remediation

2009-10 RFQ-DC-09-00265

Conference grants

\$35,000 per year for two international conferences at the University of Pittsburgh in 2014 and 2015 from Center of International Studies, Center for European Studies, Center for Sustainable Innovation, Center for International Legal Education

\$20,000 for an international conference from the Center for European Studies' EU grant in June 2022. (Scientific organizer: Gamper; PI: Jae-Jae Spoon).

Internal research grants for student support

Mascaro Center for Sustainable Innovation, 2022, \$50,000 (co-I: G. MacIntyre)

Millennium grant 2020, \$16,000

Hewlett grant, 2019-20, 2020-21, \$6,000

Central Research Development Fund, 2008-10; 2011-13, 2018-20 \$36,000

Central Research Development Fund, 2013-15, \$16,000 (joint with A. Beresteanu)

Center for Social & Urban Research, 2006-7, 2010-11, \$20,000

Center for Race and Social Problems, 2009-10, \$10,000

Center for Latin American Studies, 2009-10, \$4,000

ACADEMIC & POLICY OUTREACH

The 13th Clean Energy Ministerial, Pittsburgh, Sept 2022

Panelist, Zero-carbon Resources and Appalachia's Sustainability.

Highlighted by the media as one of the few presenters/panels that raised questions about the viability of the proposed blue hydrogen hub in Appalachia.

National Academy of Sciences, Engineering and Medicine Study Panel on the Chemical Economy, Briefing team, Office of Science and Technology, White House, Sept 2022

Teach-ins for the media and the general public

Pittsburgh Humanities Festival, by Pittsburgh Cultural Trust, America's Energy Gamble, 2022

Blue Hydrogen Hub and Carbon Capture, organized by Rep. Sara Innamorato et al., 2022

Inflation Reduction Act and Environmental Justice, Climate Social Science Network, 2022

International conferences that I organized at the University of Pittsburgh

Energy Transition: Addressing Equity Challenges, June 2022.

Presenters are country-experts on the energy transition in Poland, Germany, France, Norway, Denmark, Italy, Spain, Canada and the United States.

Managing Environmental Risks in the Shale Industry: Comparison of Policies Worldwide, 2015

Presenters are country-experts on shale gas development in US, China, South Africa, Argentina, Poland, United Kingdom, Germany and France.

Energy and Environment: Comparative Policies in the US and the EU, 2014

Presenters on shale gas development, including analysts from the European Commission, the Environmental Protection Agency, and academics from the UK, Germany and the US.

Scientific workshops – presenter or discussant

-Panelist, Transitioning energy systems, Sustainable Energy Research Network, May 2022

-Panelist on energy Rencontres économiques d'Aix en Provence, organized by the Le Cercle des économistes July 2018

-Plenary Speaker, Italian Association of Environmental and Resource Economists, annual meeting, February 2017

-Presenter, UK-US workshop on Unconventional Hydrocarbons, National Science Foundation and UK Natural Environment Research Council, November 2015

-Presenter, Chinese Economics Society, Shenzhen, May 2016

-Presenter, Shale Workshop, Sichuan University and Natural Resource Defense Council, November 2015

-Presenter, Social, Economic and Psychological Costs of Contamination, National Institute of Environmental Health Sciences and Brown University Superfund Research, May 2012

Presentations at workshops for academics, policy and business communities

-Straining Science and Law in Environmental Rollbacks, with Amy Wildermuth, University of Pittsburgh, 2019

- Energy Policy and Markets in a Shifting Federal-State Landscape, Florida State Law School, November 2017
- Panel on Reporting Facts in Energy and Environmental Issues, Society for Environmental Journalists annual meeting, 2017
- Renewable Energy and Sustainable Development, University of Pittsburgh, December 2016
- Climate Change, Duquesne University, October 2015
- Unconventional Hydrocarbons, Carnegie Mellon University, 2015
- Alliance for Research on Corporate Sustainability Conference, UC Berkeley Haas Business School, April 2013
- Voluntary Pollution Control Programs, Environmental Protection Agency and Ohio State University, May 2012

Presentations at professional meetings

- World Congress of Environmental and Resource Economists, 2010, 2014, 2018
- Association of Public Policy and Management, 2005, 2008-12, 2018, 2019
- Association for Environmental and Resource Economists meetings, 2002-5, 2007, 2008, 2011, 2012
- European Association for Environmental and Resource Economists meetings, 2009, 2011, 2012, 2013, 2015
- American Economic Association (AEA), Denver, 2011
- Environmental Economics workshop, UC Santa Barbara, 2007, 2009, 2010
- European Union Conference on Corporate Social Responsibility, Berlin, 2009

Invited Seminars/Presentations (from 2010- including webinars from 2022-)

- 2023: Princeton University†, Carleton University,† University of Kansas†
- 2022: Environmental Protection Agency, Univ. of Washington, Univ. of Wisconsin, Potsdam Institute for Advanced Sustainability Studies, Oxford University, Carnegie Mellon Univ., Univ. of Pittsburgh, University of Sussex†, University of Texas-Austin†
- 2019: Technical University of Munich.
- 2018: Technical University of Munich, Technical University of Berlin, Institute for Advanced Sustainability Studies Potsdam, Mercator Research Institute on Global Commons and Climate Change-Berlin, University of Innsbruck, Natural Resources Defense Council, Pennsylvania State University.
- 2017: Technical University of Munich.
- 2016: Massachusetts Institute of Technology, Imperial College London, University of Munich-CES-Ifo, Univ Rome Tor Vergata
- 2015: University of Munich-CES-Ifo.
- 2014: University of Munich-CES-Ifo, Porter School of Environmental Studies Tel Aviv University, Jerusalem Business School, American University.
- 2013: ParisTech Institute of Innovation, Kelley School of Business Indiana University, Erb Institute – Ross School of Business, University of Michigan.
- 2012: RAND, Carnegie Mellon University, Boston University School of Management.
- 2011: Resources for the Future, Georgetown, ETH Zurich, University of Venice, University of Milan-Bocconi (via webinar), Scottish Institute for Research in Economics – University of Edinburgh/Stirling, Cornell Dyson School of Management.
- 2010: Harvard Kennedy School of Government, University of Rome Tor Vergata, Free University Amsterdam, University of Wisconsin-Madison, Carnegie Mellon University-University of Pittsburgh-RAND.

† scheduled

TEACHING

Courses – Graduate-level interdisciplinary courses for students in Public Policy, Engineering, Public Health, Business and Law

- Climate Policy: Local and Global
F2022
- Political Economy of Global Environment
F2005, F2007, F2008, S2011, S2013, S2014, S2015, S2019, S2020, S2021, F2021, S2022
- Political Economy of Global Energy
F2013, S2016, S2017, F2017, F2018, F2019, F2020
- Political Economy of Global Health
S2006, S2008, S2009, S2010, S2011, S2013, S2014, F2015, S2019, S2021, S2022
- Development Economics and Policy
S2006, S2008, S2009, S2010, F2012, S2015, S2016, S2017, F2018, F2019, F2020, F2021, F2022
- Macroeconomics
F2012, F2016, F2017
- Current Issues in Sustainability
F2017

OMET teaching evaluations (the best score is 5).

- Development Economics 4.56 (2020-21)
- Political Economy of Global Environment, 4.43 (2020-21)
- Political Economy of Global Health 4.6 (2020-21)
- Political Economy of Global Energy 4.75 (2019-20)

Development & Implementation of New Major in Environmental and Energy, 2012-present

- Lead faculty member
- Design and teach courses on Environment, Climate, Energy and Health
- Assist students to secure research, internship and job opportunities
- Outreach including organizing international conferences
- Collaborate with schools at Pitt to offer multidisciplinary courses for Business, Engineering, Public Health, Law and Public Policy students.

Contributor to Sustainability Program Across Schools at the University of Pittsburgh

-My courses serve the M.Sc. in Sustainable Engineering at the School of Engineering, the M.B.A. Certificate in Sustainability at the Business School, the university-wide Certificate on Sustainability, and the Global Studies Certificate in Sustainable Development.

Ph.D. students

- Chair, GSPIA, University of Pittsburgh
Joshua Ash, J.D. M.Sc. Environmental Justice in Law and Policy
Lolia Adoki, Renewable energy growth in the Caribbean
- Thesis committee member, Department of Economics, University of Pittsburgh
Sunita Mondal, Evaluation of public policy programs, Asst Prof., Univ. of Pittsburgh-Greensburg
Wei Wang, Health care utilization and provider reimbursement in urban China, post-doctoral Fellow, Stanford University East Asian Studies

-Research assistants supported with research grants
Nabanita Nandi, Assistant Professor, SUNY Plattsburgh
Shikha Basnet, Assistant Professor, Washington and Lee University
Monica Jacobo, Faculty, Centro de Investigación y Docencias Económicas, Mexico

PROFESSIONAL SERVICE

Professional service at-large

-Elected to the Policy Council, Association for Public Policy Analysis and Management, 2017-2021
Committee on Academic-Policy Engagement, Committee on Communications
Organized academics-policymakers dialogue sessions: partnerships for evidence-based policies in 2018 and the role of state governments and markets in the energy transition in 2019
Worked with colleagues to organize training sessions for APPAM members on communicating with policymakers, and to feature more diverse speakers on panels and to invite diverse members to stand for APPAM's leadership elections.
Worked with colleagues to integrate energy and environmental issues across policy areas during APPAM annual meetings.
-Organized panels at the World Congress of Environmental and Resource Economists: shale policies globally in 2014 and the political economy of energy transition in 2018.
-Organized panels at the Association of Public Policy Analysis and Management annual meetings, 2005, 2008, 2011, 2012
-Organized panels on energy and the environment, European Association for Environmental and Resource Economists annual conference, 2013, 2015
-Program Committee, Association for Environmental and Resource Economists annual conference, 2011, 2012
-Program Committee, European Association for Environmental and Resource Economists annual conference, 2011

Media contributions

-S. Gamper-Rabindran. Should taxpayers gamble on blue hydrogen and carbon capture? *The Hill*, Sep. 2022
-S. Gamper-Rabindran. Trump failed fossil fuel-reliant communities — Build Back Better invests in them, *The Hill*, Feb. 2022
-S. Gamper-Rabindran. The Infrastructure Act Energizes Pennsylvania, *Pittsburgh Post-Gazette*, Nov. 2021
-S. Gamper-Rabindran. A Pennsylvania bridge just collapsed. Which one is next? *Philadelphia Inquirer*, Feb 2022
-S. Gamper-Rabindran. Pennsylvania's Supreme Court Rightly Rules for Transparency, *Pittsburgh Post-Gazette*, October. 4, 2016
-*The New Yorker* climate column, interviewed about the Biden administration's plans to correct the course on climate action and efforts on the just energy transition in Pennsylvania, 2021
-Prepared information sheet and answered questions for journalists for:
Various articles on the Inflation Reduction Act and the blue hydrogen hub, 2022
Pittsburgh City Paper article on petrochemical buildout in the tri-state region, November 2019
Inside Climate News article on the petrochemical buildout in the tri-state region, Feb 2020

Salon.com article on renewable energy in Pennsylvania, Fall 2017
Inside Energy documentary on coal, May 2016

Professional service at the University of Pittsburgh

- Faculty member, Provost Task Force on Sustainability, 2014-present
 - Enhance Pitt's national stature in sustainability research, education and outreach.
 - Design university-wide undergraduate and graduate Certificate in Sustainability which enhances students' skills in both science and social sciences and service-learning experiences to address sustainability challenges.
 - Advice on faculty lines, research support and incentive programs to enhance Pitt's multidisciplinary sustainability research.
 - Teach sustainability courses designed for students across Pitt.
- Faculty member, University-wide Global Health Certificate program, 2005-present
 - Teach the graduate-level political economy of global health core course for the Schools of Law, Public Health, Medicine, and Public Policy.
- Faculty Affiliate, University Center for International Studies, 2005-present
 - My courses serve the Global Studies Certificate program in the fields of Sustainable Development, Global Health, and Global Economy.
- Faculty Affiliate, European Union Center for Excellence, Asian Studies Center and Center for Latin American Studies.
- Faculty Affiliate, Center for Industry Studies, 2010-present
 - Organized panel for the Industry Studies Conference, 2011
 - Paper presentation at the Industry Studies Conference, 2012

Professional service at the Graduate School of Public and International Affairs

- Lead Faculty, Environment and Energy program, 2012-present
 - See above
- Chair, Committee of Diversity and Inclusivity, 2019-2020
 - Worked successfully on a proposal for LatinX cluster hire in Urban Resilience, with Jackie Smith from the Department of Sociology; Chaired meetings for the D&I Committee during the GSPIA Dean search in 2020 and submitted reports to the Dean Search Committee
- Chair, Curriculum Committee, 2018-2019
 - Provided input for GSPIA's cybersecurity program
- Chair and Representative, contract renewal of senior lecturers, various years
- Member, Faculty Hiring Committee, various years
- Lead Faculty, Corporations, Environment and Health research area, Ford Institute for Human Security, 2009-present
- Lead Faculty, Environment program, 2009-2012
 - Advise students on environmental courses across the university, internship and career opportunities, and prepare advising sheets for Student Services.
- Faculty, Contributed to the establishment of the Human Security major and the Urban and Regional Analysis major

Professional affiliations

Association of Public Policy Analysis and Management

Association of Environmental and Resource Economists
European Association of Environmental and Resource Economists

Languages:

English, Malay/Indonesian: native speaker
Spanish: reading and conversation
German: basic conversation

In-county work experience: Germany, Israel, Indonesia, Malaysia, Mexico, Venezuela.

Home country: Malaysia

Citizenship: United States and Italy