

Joanna I. Lewis

Edmund A. Walsh School of Foreign Service
Science, Technology and International Affairs Program
Georgetown University

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Websites: <http://explore.georgetown.edu/people/jil9/>; <https://blogs.commonsg.georgetown.edu/jil9/>

CURRENT POSITIONS

Edmund A. Walsh School of Foreign Service, Georgetown University. Washington, DC.

Associate Professor with tenure, Science, Technology and International Affairs

--Affiliate Associate Professor, McCourt School of Public Policy. (2014-present)

--Undergraduate STIA Concentration Director, Energy and Environment.

Assistant Professor, 2008 – 2014.

China Energy Group, Lawrence Berkeley National Laboratory, U.S. Department of Energy.

Berkeley, CA. Faculty Affiliate, January 2013-present.

EDUCATION

University of California Berkeley. Berkeley, California.

Ph.D. Energy and Resources, December 2005.

M.A. Energy and Resources, May 2001.

Duke University. Durham, North Carolina.

A.B. Environmental Science and Policy, minor in French Literature, May 1997.

PUBLICATIONS

Books

Lewis, Joanna I. 2013. *Green Innovation in China: China's Wind Power Industry and the Global Transition to a Low-Carbon Economy.* (New York: Columbia University Press).

- Winner of the 2014 Harold & Margaret Sprout Award, International Studies Association. Given by the Environmental Studies Section for the best book in the field that makes a contribution to theory and interdisciplinarity, shows rigor and coherence in research and writing, and offers accessibility and practical relevance.

Journal Articles

Refereed

Lewis, Joanna I., David G. Fridley, Lynn K. Price, Hongyou Lu, John Romankiewicz. 2015.

“Understanding China’s Non-Fossil Energy Targets.” *Science* 350(6264): 1034-1036.

Lewis, Joanna I. 2014. “Industrial Policy, Politics and Competition in the Wind Power Industry” *Business and Politics* 16(4): 511–547.

Lewis, Joanna I. 2014. “The Rise of Renewable Energy Protectionism: Emerging Trade Conflicts and Implications for Low Carbon Development” *Global Environmental Politics* 14(4): 10-35.

- Lewis, Joanna I. 2014. "Managing Intellectual Property Rights in Cross-Border Clean Energy Collaboration: The Case of the U.S.-China Clean Energy Research Center." *Energy Policy* 69: 546-554.
- Wang Zhongying, Qin Haiyan and Joanna I. Lewis. 2012. "China's Wind Power Industry: Policy Support, Technological Achievements, and Emerging Challenges." *Energy Policy* 51:80-88.
- Lewis, Joanna I. 2011. "Building a National Wind Turbine Industry: Experiences from China, India and South Korea." *International Journal of Technology and Globalisation* 5(3/4): 281-305.
- Lewis, Joanna I. 2010. "The State of U.S.-China Relations on Climate Change: Examining the Bilateral and Multilateral Relationship." *China Environment Series* 11: 7-39.
- Lewis, Joanna I. 2010. "The Evolving Role of Carbon Finance in Promoting Renewable Energy Development in China." *Energy Policy* 38(6): 2875-2885.
- Lewis, Joanna I. 2009. "Climate Change and Security: Examining China's Challenges in a Warming World." *International Affairs* 85(6): 1195-1213.
- Lewis, Joanna I. 2007. "Technology Acquisition and Innovation in the Developing World: Wind Turbine Development in China and India." *Studies in Comparative International Development* 42(3): 208-232.
- Lewis, Joanna I. and Ryan H. Wiser. 2007. "Fostering a Renewable Energy Technology Industry: An International Comparison of Wind Industry Policy Support Mechanisms." *Energy Policy* 35(3): 1844-1857.
- Lewis, Joanna I. 2006. "Leading the Renewable Energy Revolution." *Georgetown Journal of International Affairs* 7(2): 147-154.
- Yeh, Emily T. and Joanna I. Lewis. 2004. "State Power and the Logic of Reform in China's Electricity Sector." *Pacific Affairs* 77(3): 437-465.
- Ren Dongming and Joanna Lewis. 2004. "Renewable Energy Legislation in China: Political and Institutional Strategy for Effective Implementation." *Chinese Journal of Population, Resources and Environment* 2(1): 13-17.

Under Preparation/Review (Refereed)

- Hayashi, Daisuke, Joern Huenteler and Joanna Lewis. "Gone with the Wind: A Learning Curve Analysis of China's Wind Power Industry." (under preparation)
- Lewis, Joanna I. "China's Climate Diplomacy: Assessing the Role of Technical Capacity" (under preparation)
- Lewis, Joanna I. "The Global Diffusion of Learning in the Wind Power Industry" (under preparation)

Non-Refereed

- Lewis, Joanna. 2011. "Renewables strategy: industrial policy scrubs up." *China Economic Quarterly* 15(1), March.
- Lewis, Joanna I. 2007. "China's Strategic Priorities in International Climate Negotiations." *The Washington Quarterly* 31(1): 155-174.
- Lewis, Joanna. 2007. "China's Climate Change Strategy." *China Brief*, Volume 7, Issue 13.

- Logan, Jeffrey, Joanna Lewis and Michael B. Cummings. 2007. "For China, the Shift to Climate-Friendly Energy Depends on International Collaboration." *Boston Review*, January/February.
- Lewis, Joanna and Ryan Wiser. 2007. "Wind: A Local Industry." *REFocus* 8(2): 36-41.
- Fridley, David, Jonathan Sinton and Joanna Lewis. 2003. "Working out the Kinks: Understanding the Fall and Rise of Energy Use in China." *Oxford Energy Forum*, April.

Book Chapters in Edited Volumes

- Lewis, Joanna I. 2016 (forthcoming). "Green Innovation in China." In *Routledge Handbook on China's Environmental Policy*, edited by Eva Sternfeld (London: Routledge).
- Lewis, Joanna I. 2016. "Innovation Models in China's Wind Power Industry" in *Is China Becoming an Innovation Nation? Perspectives on the evolving technological capabilities of the world's most dynamic economy*, edited by Yu Zhou and Bill Lazonick (Oxford: Oxford University Press).
- Gallagher, Kelly Sims and Joanna I. Lewis. 2015. "China's Quest for a Green Economy" in *Environmental Policy* (9th Edition), edited by Norman J. Vig and Michael E. Kraft, (Washington: CQ Press).
- Lewis, Joanna I. 2014. "Technology Transfer," in *Essential Concepts of Global Environmental Governance*, edited by Amandine Orsini and Jean-Frédéric Morin (London: Routledge/Earthscan).
- Lewis, Joanna I. 2014. "Assessing Climate Change Impacts and Adaptation Strategies in China," in *Adaptation to Climate Change in Asia*, edited by Sushil Vachani and Jawed Usmani. Northampton, MA: Edward Elgar.
- Lewis, Joanna I. and Kelly Sims Gallagher. 2014. "Energy and Environment in China: National and Global Challenges" in *The Global Environment: Institutions, Law and Policy* (Fourth Edition), edited by Regina Axelrod, Stacy VanDeveer (Washington: CQ Press).
- Lewis, Joanna I. 2013. "China's Environmental Diplomacy: Climate Change, Domestic Politics and International Engagement" in *China Across the Divide*, edited by Rosemary Foot (Oxford: Oxford University Press).
- Gallagher, Kelly Sims and Joanna I. Lewis. 2013. "China's Quest for a Green Economy" in *Environmental Policy* (8th Edition), edited by Norman J. Vig and Michael E. Kraft, (Washington: CQ Press).
- Lewis, Joanna I. 2012. "Climate Change Challenges and China's Foreign Policy" in *China's Challenges to Human Security: Foreign Relations and Global Implications*, edited by Guoguang Wu, (New York: Routledge).
- Lewis, Joanna I. 2012. "Climate Mitigation Initiatives in China," in *Berkshire Encyclopedia of Sustainability Volume 7. China, India and Southeast Asia: Assessing Sustainability*. (Great Barrington: Berkshire Press). (Also served as an associate editor for the volume.)
- Lewis, Joanna I. 2011. "China" in *Climate Change and National Security: A Country-Level Analysis*, edited by Daniel Moran (Washington: Georgetown University Press).
- Lewis, Joanna and Jinghua Cao. 2010. "US-Chinese Cooperation" in *The Power of Renewables: Opportunities and Challenges for China and the United States*, (Washington: The National Academies Press).
- Lewis, Joanna I. 2010. "Environmental Challenges: From the Local to the Global" in *China Today*,

China Tomorrow: Domestic Politics, Economy, and Society, edited by Joseph Fewsmith (Lanham: Roman and Littlefield).

Lewis, Joanna and Kelly Sims Gallagher. 2010. “Energy and Environment in China: Achievements and Enduring Challenges” in *The Global Environment: Institutions, Law and Policy* (Third Edition), edited by Regina Axelrod, Stacy VanDeveer and David Leonard Downie (Washington: CQ Press).

Lewis, Joanna I., Qimin Chai and Xiliang Zhang. 2009. “Low Carbon Electricity Development in China: Opportunities and Challenges,” in *Generating Electricity in a Carbon Constrained World*, edited by Fereidoon P. Sioshansi (San Diego: Elsevier Academic Press).

Lewis, Joanna I., Michael B. Cummings and Jeffrey Logan. 2009. “Understanding the Climate Challenge in China,” in *Climate Change Science and Policy*, edited by Steven H. Schneider, Armin Rosencranz, Michael Mastrandrea and Kristin Kuntz-Duriseti. (Washington: Island Press).

Lewis, Joanna. 2005. “Wind Electricity in the United States (*Meiguo Fengli Fadian*)” In *Wind Energy Development and Utilization (Feng Neng Kaifa Liyong)* edited by Zhang Xiliang (Beijing: China Chemical Industry Press) (in Chinese).

Technical and Policy Papers

Lewis, Joanna I. “A Better Approach to Intellectual Property? Lessons from the US-China Clean Energy Research Center.” *Paulson Papers on Energy and Environment*, Chicago: Paulson Institute, June 1, 2015.

Agrawala, Shardul, Roberto Acosta Moreno, Leonardo Barreto-Gomez, Thomas Cottier, Alba Eritrea Gámez-Vázquez, Dabo Guan, Edgar E. Gutierrez-Espeleta, Leiwen Jiang, Yong Gun Kim, Stephan Klasen, Joanna Lewis, Mohammed Messouli, Michael Rauscher, Noim Uddin Anthony Venables. “Regional Development and Cooperation.” Chapter 14 in the Intergovernmental Panel on Climate Change 5th Assessment Report. 2014.

Lewis, Joanna. “Supporting Clean Energy Innovation in the United States: A Review of the US Clean Energy Innovation System and Potential Implications for China.” Prepared for the Development Research Center of the State Council of the People’s Republic of China, July 2013.

Lewis, Joanna. “Intellectual Property, Innovation and Investment in Clean Energy: Exploring US-China Perspectives.” Report on the second joint workshop on intellectual property in the US-China Clean Energy Research Center. Prepared for the U.S.-China Clean Energy Forum and the US Department of Energy, February 2013.

Lewis, Joanna. “Intellectual Property in the US-China Clean Energy Research Center: Findings from the First Joint Workshop in Haikou.” Prepared for the U.S.-China Clean Energy Forum and the US Department of Energy, June 2012.

Lewis, Joanna. “The Chinese Solar Photovoltaic Industry: Structure, Policy Support and Learning Achievements.” Prepared for the Regulatory Assistance Project’s India Program, June 8, 2011.

Lewis, Joanna. “Grid Connected Renewable Energy Generation Toolkit: Wind Power Technologies.” Prepared for USAID, December 2009.

- Lewis, Joanna. "Can Green Sunrise Industries Lead the Drive into Recovery? The Case of the Wind Power Industry in China and India." Prepared for the United Nations Industrial Development Organization (UNIDO), October 2009.
- Schell, Orville, Banning Garrett, Joanna Lewis, Jonathan Adams, Eileen Claussen, and Elliot Diringer. *A Roadmap for US-China Cooperation on Energy and Climate*. Asia Society/Pew Center on Global Climate Change, January 2009.
- Lewis, Joanna, Amber Sharick and Tian Tian. "International Motivations for Solar Photovoltaic Market Support: Findings from the United States, Japan, Germany and Spain." Prepared for the Energy Foundation China Sustainable Energy Program, January 2009.
- Lewis, Joanna and Elliot Diringer. "Policy-Based Commitments in a Post-2012 Climate Framework." Arlington: Pew Center on Global Climate Change, May 2007.
- Lewis, Joanna. "A Comparison of Wind Power Industry Development Strategies in Spain, India and Fridley, David, Jonathan Sinton, Bryan Lehman, Joanna Lewis, Lin Jieming, Zhou Fengqi, Li Ji. China." Prepared for the Energy Foundation China Sustainable Energy Program, July 2007.
- Heer, Katrin-Dorothee, Ole Langniss, Ryan Wiser, Joanna Lewis, Jan Hamrin. "Promoting Renewable Energy Sources in Portugal: Possible Implications for China." ZSW Stuttgart, June 2007.
- Lewis, Joanna. "A Review of the Potential International Trade Implications of Key Wind Power Industry Policies in China." Prepared for the Energy Foundation China Sustainable Energy Program, October 2006.
- Lewis, Joanna and Ryan Wiser. "Supporting Localization of Wind Technology Manufacturing through Large Utility Tenders in Québec: Lessons for China." Prepared for the Energy Foundation China Sustainable Energy Program, June 2006.
- Fridley, David, Nathaniel Aden, Jonathan Sinton, Nan Zhou, Malini Ranganathan, Joanna Lewis, Jiang Lin. "China's Energy Future to 2020." Lawrence Berkeley National Laboratory Report No. 58664, 2006.
- Lewis, Joanna and Ryan Wiser. "Fostering a Renewable Energy Technology Industry: An International Comparison of Wind Industry Policy Support Mechanisms." Lawrence Berkeley National Laboratory Report No. 59116, November 2005.
- Sinton, Jonathan, Rachel Stern, Nathaniel Aden, Mark Levine, Tyler Dillavou, David Fridley, Joe Huang, Joanna Lewis, Jiang Lin, Aimee McKane, Lynn Price, Ryan Wiser, Nan Zhou, Jean Ku. "Evaluation of China's Energy Strategy Options." Lawrence Berkeley National Laboratory Report No. 56609, May 2005.
- Lewis, Joanna and Ryan Wiser. "A Review of International Experience with Policies to Promote Wind Power Industry Development." Prepared for the Energy Foundation China Sustainable Energy Program. March 2005.
- Sinton, Jonathan E., David G. Fridley, Joanna I. Lewis, Yanxia Chen, Jieming Lin, Nan Zhou. *China Energy Databook, sixth revised edition*. Berkeley: Lawrence Berkeley National Laboratory. June 2004.
- Sinton, Jonathan, Joanna Lewis, Mark Levine, and Zhu Yuezhong, Eds. "China's Sustainable Energy Future: Scenarios of Energy and Carbon Emissions." Lawrence Berkeley National Laboratory Report No. 54067, October 2003.

Sinton, Jonathan E., Joanna I. Lewis, Lynn K. Price, and Ernst Worrell. "China's Sustainable Energy Future Scenarios and Carbon Emissions Analysis, Subreport 11: International Trends in Energy-Efficiency Technologies and Policies." Lawrence Berkeley National Laboratory Report No. 51719, November 2002.

China Energy Databook, fifth revised edition. Berkeley: Lawrence Berkeley National Laboratory. May 2001.

Conference Papers

Lewis, Joanna I. "Scaling up Technology Management Agreements to Facilitate Low Carbon Technology Transfer: Lessons from Sino-US Clean Energy Cooperation." *International Studies Association Annual Convention*, New Orleans, LA, February 2015.

Lewis, Joanna I. "Renewable Resource Development in China's Northern Borderland: The Policies and Politics of Wind Power in Inner Mongolia." Prepared for the Borderland China workshop at UC Berkeley, May 20-21, 2014.

Lewis, Joanna I. "Examining China's Role in Global Clean Energy Technology Development." Prepared for the conference on the Role of Science and Technology in China's International relations. Arizona State University, April 2-4, 2014.

Lewis, Joanna I. "Mapping the Global Diffusion of Wind Power Technology: Deployment, Innovation, and Intellectual Property." Prepared for the *Atlanta Conference on Science and Innovation Policy*, Georgia Institute of Technology, fall 2013.

Lewis, Joanna I. "Supporting Clean Energy Innovation in the United States and China." Prepared for the *Association for Public Policy Analysis & Management (APPAM) Annual Fall Research Conference*, fall 2013.

Lewis, Joanna I. "Industrial Policy, Politics and Competition in the Wind Power Industry." Prepared for the conference on *Industrial Policy in the Financial Crisis Era*, University of California Berkeley, APEC Study Center, May 3-4, 2013.

Lewis, Joanna I. "The Global Diffusion of Learning in the Wind Power Industry." *ISA Annual Convention*, San Francisco, CA, April 3-6, 2013.

Lewis, Joanna I. "Emerging Conflicts in Renewable Energy Policy and International Trade Law." *World Renewable Energy Forum 2012*, Denver, CO, May 13-17, 2012.

Lewis, Joanna I. "The US-China Clean Energy Research Center: A New Model for Collaborative International Clean Energy Innovation?" *ISA Annual Convention*, San Diego, April 1-4 2012.

Lewis, Joanna I. "The State of U.S.-China Relations on Climate Change: Examining the Bilateral and Multilateral Relationship." *ISA Annual Convention*, Montreal, Canada, March 19, 2011.

Lewis, Joanna I. "A Comparison of the Wind Power Technology Development Strategies of Chinese and Indian Firms." *China Windpower 2009*, Beijing, October 21-23, 2009.

Lewis, Joanna I. "The Evolving Role of Carbon Finance in Promoting Wind Power Development in China." *China Windpower 2008*, Beijing China, October 29-31, 2008.

Lewis, Joanna. "A Comparison of Wind Power Industry Development Strategies in Spain, India and China." *Wind Power Shanghai 2007*, Shanghai, China, November 1-2, 2007.

Lewis, Joanna I. "Wind Industry Development Incentives through Utility Tenders in Quebec: Lessons for China." *Proceedings of the Great Wall World Renewable Energy Forum and Exhibition*, Beijing, China, 23-27 October 2006.

- Joanna I. Lewis, “Part of the Climate Change Problem . . . and the Solution? Chinese-Made Wind Power Technology and Opportunities for Dissemination.” *Proceedings of the 2005 Breslauer Symposium, “An Interdisciplinary Look at a Global Problem: Social and Scientific Aspects of Climate Change.”* University of California, International and Area Studies, February 25, 2005.
- Lewis, Joanna. “Conceding Too Much? Conflicts between the Government and Project Developers in Promoting the China ‘Wind Concession’ Project Development Model.” *Proceedings of the Eighth World Renewable Energy Congress*, Denver, Colorado, August 28 - September 3, 2004.
- Lewis, Joanna, David Fridley and Jonathan Sinton. “Sectoral and Geographic Analysis of the Decline in China’s National Energy Consumption in the Late 1990s.” *Proceedings of the ACEEE Summer Study on Energy Efficiency in Industry*, Rye Brook, New York, July 29-August 1, 2003.

Testimony

- Lewis, Joanna I. “U.S.-China Clean Energy Cooperation.” Testimony before the U.S.-China Economic and Security Review Commission, Hearing on “U.S.-China Clean Energy Cooperation: Status, Challenges and Opportunities.” April 25, 2014.
- Lewis, Joanna I. “China’s Approach to Global Climate Change.” Testimony before the U.S.-China Economic and Security Review Commission, Hearing on “China’s Energy Policies and Their Environmental Impacts.” August 13, 2008.

Book Reviews

- Lewis, Joanna I. 2015. Review of Chris P. Nielsen and Mun S. Ho (eds.); *Clearer Skies Over China: Reconciling Air Quality, Climate, and Economic Goals*, Cambridge, MA: The MIT Press, 2013; 433 pp. for *Pacific Affairs*.
- Lewis, Joanna I. 2015. Review of Stern, Rachel E. *Environmental Litigation in China: A Study in Political Ambivalence* (New York, Cambridge University Press, 2013), *Journal of Chinese Political Science*, February 2015.
- Lewis, Joanna I. April 2013. “A Comprehensive Look at Technology Transfer.” Review of Ockwell, David G. and Mallett, Alexandra (eds); *Low-Carbon Technology Transfer: From Rhetoric to Reality*, Routledge, Abingdon and New York, 2012, 374 pp. for *Climate Policy*.

Policy Briefs and Commentaries

- Lewis, Joanna. Is China a Leader or Laggard on Climate Change? *ChinaFile*, December 10, 2015.
- Lewis, Joanna. “Americans Speak to U.S.-China Policy.” September 24, 2015.
- Lewis, Joanna. What Would New Breakthroughs on Climate Change Mean for the U.S.-China Relationship? *China File*, September 16, 2015.
- Lewis, Joanna. “Are China’s Limits on Greenhouse Gas Emissions Meaningful?” *China File*, July 9, 2015.
- Lewis, Joanna. “U.S.-China Climate Cooperation More Crucial Than Ever.” *China Dialogue and China File* (published in Chinese and English), July 10, 2014.
- Lewis, Joanna (interview by Leah Thompson). “A Progress Report on U.S.-China Energy & Climate Change Cooperation.” *ChinaFile.com*, February 14, 2013.
- Lewis, Joanna. “Building Our Clean Energy Industries: Learning from China’s Experience in Wind Power.” *Chinafaqs.org*, World Resources Institute, February 4, 2013.

- Lewis, Joanna. "U.S., China Need a Green Peace, Not a Trade War." *Salon.com*, February 14, 2012.
- Lewis, Joanna. "China's Competitive Advantage in the Solar Industry: How Advantageous is it Really?" *Chinafaqs.org*, World Resources Institute, October 3, 2011.
- Lewis, Joanna. "Energy and Climate Goals of China's 12th Five-Year Plan." Pew Center on Global Climate Change, March 2011.
- Lewis, Joanna and Deborah Seligsohn. "Two International Conferences in China Highlight the Importance of Wind Energy." *Chinafaqs.org*, World Resources Institute, November 4, 2010.
- Lewis, Joanna. "Decoding China's Climate and Energy Policy Post-Copenhagen." *Policy Brief*, The German Marshall Fund of the United States, June 2010.
- Lewis, Joanna. "Energy leapfrogging in China and India." *China Dialogue* (published in Chinese and English), March 10, 2008.
- Lewis, Joanna. "Learning How to Ride the Wind: The Disappointments and Potential of Wind Power in China." *China Environment Series 6*, Woodrow Wilson Center for Scholars, Washington, DC. Spring 2003.
- Lewis, Joanna. "Hurricane Mitch: An Indication of Severe Weather to Come with Our Changing Climate?" *Beyond Just U.S.* National Wildlife Federation, Washington, D.C., Spring 1999.
- Lewis, Joanna. "Global Warming Threatens New England Wildlife, Local Economies." *EnviroAction*. National Wildlife Federation, Washington, D.C., April 1999.

Theses

- Lewis, Joanna. *From Technology Transfer to Local Manufacturing: China's Emergence in the Global Wind Power Industry*. Completed in partial fulfillment of the Ph.D. in Energy and Resources at the University of California Berkeley, August 2005. Committee: Daniel M. Kammen, You-tien Hsing, Jonathan Sinton, Alex Farrell.
- Lewis, Joanna. *Introducing a Mandatory Market Share for Renewable Electricity Generation in China: Design Considerations and Market Implications*. Completed in partial fulfillment of the M.A. in Energy and Resources at the University of California Berkeley, May 2001. Advisor: Daniel M. Kammen.
- Lewis, Joanna. *Photovoltaic Power Applications in Developing Nations: An Analysis of Successes and Failures*. Completed in partial fulfillment of the B.A. in environmental science and policy at Duke University, May 1997. Advisors: Marie Lynn Miranda (environmental science), Robert O. Keohane (political science).

GRANTS, FELLOWSHIPS AND HONORS

- 2013 National Science Foundation. "International Partnerships and Technological Leapfrogging in China's Clean Energy Sector." Award #1262452. PI: Joanna Lewis. (\$310,970)
- 2013 Georgetown University Environment Initiative. "Adaptation and Mitigation Linkages in the United States and China: Comparing Climate Resilience Initiatives and Implications for Sub-National Policy." Project Lead: Joanna Lewis; in collaboration with Vicki Arroyo and Kathryn Zyla, Georgetown Law Center (\$18,000)
- 2013 Georgetown University Environment Initiative. "Towards Submission of an IGERT Proposal Focusing on Chemical Catalysis for Energy, Environment, and Sustainability." Project Lead: YuYe Tong, Chair of the Department of Chemistry; with Timothy Warren,

- Travis Holman, Christian Wolf (Chemistry), Joanna Lewis, Tim Beach (SFS) and David Konisky (GPPI) (\$25,000)
- 2013 Junior Faculty Research Fellowship, Georgetown University Graduate School (one semester of leave taken in spring)
- 2013 Competitive Grant-in-Aid, Georgetown University Graduate School (spring)
- 2011 Residential Fellowship, Woodrow Wilson International Center for Scholars (2011-2012) (fellowship covered one year of salary for research leave)
- 2011 Public Intellectuals Program Fellow, National Committee on US-China Relations (2011-2013)
- 2011 Lead Author, Intergovernmental Panel on Climate Change (IPCC), 5th Assessment Report (representing the United States) (2011-2014)
- 2011 Georgetown University Asian Studies Conference Travel Grant
- 2011 Georgetown University School of Foreign Service Faculty Summer Research Grant (\$7,375)
- 2011 International Studies Association (ISA) travel grant
- 2011 Washingtonian Magazine's List of "Women to Watch" (10 women under 40)
- 2010 Center for New Designs in Learning & Scholarship (CNDLS) "Closing the Loop" Assessment Grant to evaluate writing and research skills across STIA. Project lead: Betsi Stephen (2010-2012)
- 2010 Visiting Research Fellowship, East West Center, Honolulu, HI (summer 2010)
- 2008 National Academies Panel Member, Committee of US-Chinese Cooperation on Electricity from Renewable Resources (2008-2010)
- 2006 Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) Symposium Fellowship (supported by the National Science Foundation)
- 2004 Liu Graduate Fellowship in Chinese Studies, University of California, Berkeley (2004-2005)
- 2003 Senior Visiting Scholar, Tsinghua University, Institute for Energy, Environment and Economy, Beijing, China (2003-2004)
- 2003 Fieldwork Research Grant, Energy and Resources Group, UC Berkeley (2003-2004)
- 2003 Summer Chinese Language Fellowship, UC Berkeley Institute of East Asian Studies
- 2002 Research Grant, Energy and Resources Group, UC Berkeley (2002-2003)
- 1996 Pew Undergraduate Research Grant in Environmental Policy (1996-1997)

SELECTED WORK EXPERIENCE

Lawrence Berkeley National Laboratory (LBNL). Berkeley, California.

China Energy Group, Energy Analysis Department, Environmental Energy Technologies Division. Graduate Student Researcher, May 2000 – August 2005; Affiliate Faculty, Spring 2013-present.

Energy Foundation, China Sustainable Energy Program. Beijing, China.

Expert advisor/consultant, Renewable Energy Program. January 2001 – present.

US-China Clean Energy Forum. Seattle, Washington.

Consultant, supporting US-China IP work for the US Department of Energy, March 2012 - present.

Asia Society, Center for US-China Relations. Washington, District of Columbia.

Research Coordinator, Initiative for US-China Cooperation on Energy and Climate, 2008.

United Nations Industrial Development Organization (UNIDO). Vienna, Austria.

Consultant, August – December 2009.

HMW International. Mill Valley, California.

Consultant for USAID Project on renewable energy in the developing world, December 2008-October 2009.

Pew Center on Global Climate Change. Arlington, Virginia.
Senior International Fellow, August 2005-July 2008 (Full-time).

School of Foreign Service, Georgetown University, Washington, District of Columbia.
Adjunct Assistant Professor, January 2006-May 2008 (taught 1 course per year).

Energy and Resources Group, University of California, Berkeley. Berkeley, California.
Graduate Student Instructor. *Energy and Society*, Fall 2004.

Beijing ADC Integrated Solutions Co., Ltd. Beijing, China.
Advisor, wind power consultancy. January – April 2004.

Green Capital Consulting, Beijing, China.
Advisor, carbon trading consultancy, September 2003- June 2004.

Department of Geography, University of California, Berkeley. Berkeley, California.
Graduate Student Reader/Lecturer, *Social and Economic Development in China*, Fall 2002.

Institute for Sustainable Energy Paths (IPSEP). El Cerrito, California.
Consultant, January 2002 – August 2002.

Environmental Defense Fund (EDF). Oakland, California.
Research Assistant, International Program, August 1999 – May 2000.

National Wildlife Federation (NWF). Washington, District of Columbia.
Research Assistant, Climate Change Program, January – June 1999.

Newfound Harbor Marine Institute (NHMI). Big Pine Key, Florida.
Marine Science Instructor, (Elementary through High School), January – May 1998.

Hawaii Volcanoes National Park (HAVO). Hawaii National Park, Hawaii.
Field Research Assistant, Hawksbill Sea Turtle Project, Resources Management Division, June – December 1997.

Organization for Tropical Studies (OTS). Durham, North Carolina.
Assistant to the Academic Director (part-time), September 1996 – May 1997.

White House Council on Environmental Quality (CEQ). Washington, District of Columbia.
Environmental Policy Intern, May – August 1996.

SELECTED PROFESSIONAL SERVICE

2014-2016	Executive committee, Environmental Studies Section, International Studies Association
2011-2014	Lead Author, Intergovernmental Panel on Climate Change (IPCC), 5 th Assessment Report, Working Group III, Chapter 14: Regional Development and Cooperation
2011-2012	Participant in the National Committee on US-China Relations Public Intellectuals Program (includes public outreach activities on topics related to China) (2011-2013)
2010-present	Advisory Board Member Asia Society, Center for US-China Relations
2010-present	Served as panel chair and/or discussant at ISA annual convention each year
2009-present	Participant in the China FAQs expert network convened by the World Resources Institute to provide public and policy outreach on energy and environmental issues in China, including policy commentaries, media outreach and congressional briefings
2008-present	Member, Advisory Board, American Council on Renewable Energy China Program
2008-2010	National Academies Panel Member, US-Chinese Cooperation on Electricity from

Renewable Resources (The U.S. National Academies, in collaboration with the Chinese Academy of Sciences and Chinese Academy of Engineering)

Referee

Journals: *American Political Science Review*, *China Environment Series*, *China Journal*, *Climate Policy*, *Climatic Change*, *Energies*, *The Energy Journal*, *Energy Policy*, *Environment and Planning C*, *Environmental Politics*, *Environmental and Resource Economics*, *Environmental Engineering and Management Journal*, *Environmental Management*, *Environmental Research Letters*, *Environmental Science and Technology*, *Global Environmental Politics*, *Governance*, *Journal of Chinese Political Science*, *Journal of Current Chinese Affairs*, *Journal of Environmental Policy and Planning*, *Journal of Renewable Energy Law And Policy*, *Review of International Political Economy*, *Review of Policy Research*, and *Science*.

Think Tank and Government/Intergovernmental Publications: Chatham House, Council on Foreign Relations (CFR), Pew Center, Institute for Global Environmental Strategies (IGES/Japan), the RAND Corporation, the Berkshire Encyclopedia of Sustainability, the World Resources Institute (WRI), the National Renewable Energy Laboratory (NREL), the National Science Foundation (NSF), the Intergovernmental Panel on Climate Change (IPCC). Grant reviewer: Private foundations, World Bank, National Science Foundation.

TEACHING AND ADVISING

Courses taught at Georgetown University

STIA 305. *Science and Technology in the Global Arena* (Spring and Fall 2014, Spring and Fall 2015)

MSFS 604. *Climate Science and Policy* (Spring 2015)

MSFS 524. *China's Energy Challenges: Technology, Policy and Sustainability* (Fall 2013)

STIA 412. *Climate Science and Policy* (Spring 2009-2011; Fall 2012, 2013, Spring 2016)

STIA 379/451. *Energy and Environment in China* (Spring 2008-2011, 2014, 2015, 2016)

STIA 353. *Energy and Sustainability* (Fall 2009, 2010)

STIA 410. *Honors Research Seminar* (Fall 2014, 2015)

INAF 100.17/18 *Leapfrog Technologies for Sustainable Development* (Fall 2008-2012)

STIA 108. *Quantitative Methods for Policy* (STIA, Spring 2007-as adjunct faculty)

Advising

Thesis Advisor. Primary advisor for five students to date completing undergraduate honors theses in Science, Technology and International Affairs (including 2 Circumnavigator Fellows); one student in International Politics; one student in Government; and two master's students (GEMBA and SFS). Also advise several external masters' candidates.

Ph.D. Dissertation Committees: Daisuke Hayashi, University of Zurich: "International Technology Transfer in China and India's Wind Industries;" Weila Gong, Free University Berlin: "Comparative Studies on China's Local Climate Capacity: Shenzhen, Xiamen and Nanchang;" Joern Hunteler, ETH Zurich, "Creating Markets for Energy Innovations: Case Studies on Policy Design and Impact." *Undergraduate Research.* Have supervised multiple undergraduate student research assistants (~2/year) to date through the Georgetown Undergraduate Research Opportunities Program (GUROP)

SELECTED INVITED PRESENTATIONS

AU Climate Conference, October 5, 2015

Princeton China Air Pollution and Climate Workshop, August 3-5, 2015

WRI/EESI China climate senate briefing, July 14, 2015
US-China Carbon Forum, Shanghai, China, June 19, 2015
US-China Climate Workshop, Changsha, China, June 18, 2015
US-China Climate Roundtable, Beijing, China, June 15, 2015.
US-China Renewable Energy Industries Forum, Washington, DC, June 3, 2015.
Resources for the Future, April 20, 2015
UNC-Duke China Leadership Summit, Chapel Hill, NC February 22, 2015
US State Department International Visitors Program, January 21, 2015
George Washington University, Washington, DC, November 21, 2014
IFCE and WWF Senate Briefing, Washington, DC November 13, 2014
Center for American Progress, Washington, DC, October 13, 2014
University of Texas Austin, October 2, 2014
Duke University, Nicholas School of the Environment, Durham, NC, September 19, 2014
National Committee on US China relations, New York, NY, September 11, 2014
ETH Zurich, Zurich, Switzerland, June 9, 2014
National Bureau of Asian Research, Washington, DC, June 5, 2014
US Department of Energy, May 27, 2014
University of California Berkeley, Conference on China's Borderlands, May 20-21, 2014
Columbia University Modern China Seminar Series, May 8, 2014
Vassar College, Conference on Innovation in China, April 5, 2014
Arizona State University, Conference on International S&T in China, April 4, 2014
Johns Hopkins School of Advanced International Studies, February 7, 2014
Elliot School, George Washington University, January 30, 2014
European Commission, Brussels, Belgium, November 14, 2013
Association of Public Policy and Management, November 7, 2013
Marin Academy Conference on Democracy, San Rafael, CA (via skype), October 25, 2013
Atlanta Conference on Innovation, Georgia Tech, September 26, 2013
Young Professionals in Foreign Policy, Washington, DC, September 19, 2013
Workshop on Informing Energy Technology Policy Decisions, Washington, DC, June 15, 2013
Foreign Correspondents Club of China, Embassy of Belgium, Beijing, China, June 7, 2013
American Chamber of Commerce, Beijing, China, June 5, 2013
Beijing Energy Network, Beijing, China, June 5, 2013
Hopkins China Forum, Shanghai, China, May 28, 2013
Shanghai Forum, Fudan University, Shanghai, China, May 27, 2013
University of California Berkeley, APEC Study Center, May 4, 2013
United Nations General Assembly, UN Headquarters, New York, NY, April 30, 2013
Energy and Resources Group, University of California, Berkeley, March 6, 2013
Weatherhead East Asian Institute, Columbia University, New York, February 13, 2013
National Committee on US-China Relations, New York, February 12, 2013
China Environment Forum, Woodrow Wilson International Center for Scholars, January 29, 2013
18th Session of the Conference of the Parties to the UNFCCC, Doha, Qatar, November 23, 2013
Harvard University Kennedy School, December 19, 2012
NCUSCR military briefing on China, Cosmos Club, Washington, DC, October 25, 2012
Senate Briefing, hosted by EESI and WRI, October 11, 2012
Keynote address, RETECH international trade forum, Washington, DC, October 19, 2012
Energy Foundation China Sustainable Energy Program, Beijing, China, July 9, 2012
Center for Energy and Climate Solutions and Tsinghua University, Washington, DC, June 5, 2012
World Renewable Energy Forum, Denver, CO, May 14, 2012
Woodrow Wilson International Center for Scholars, May 9, 2012

World Bank spring meetings, April 18, 2012
University of California San Diego 21st Century China Program, February 3, 2012
New Generation Seminar, East West Center, October 13, 2011
CISCO China Government Leadership Forum, Washington, DC, September 20, 2011
DOE-NEA US-China Renewable Energy Industry Forum, Washington, DC, September 19, 2011
METI IPCC AR5 Symposium, Tokyo, Japan, July 5-6, 2011
US Chamber of Commerce, Washington, DC, May 25, 2011
Berkeley-Stanford Cleantech Conference, San Francisco, CA, April 9, 2011
EESI Briefing at the Capitol Hill Visitors Center, Washington, DC, April 5, 2011
ACORE webinar series, March 1, 2011
Camden Conference, Camden, Maine, February 19, 2011
China Environment Forum, Woodrow Wilson Center for Scholars, December 2, 2010
University of Victoria, British Columbia, Canada, November 6, 2010
Women's Council on Energy and the Environment luncheon, November 1, 2010
Brookings Institution conference on Developing Clean Energy Markets, October 25, 2010
U.S. CAN, NDRC and GU side events at the UNFCCC negotiations in Tianjin, October 2010
Brookings Institution Conference on U.S.-China Clean Energy Cooperation, September 17, 2010
Transatlantic Climate and Energy Dialogue, Johns Hopkins University, September 13, 2010
Council on Foreign Relations (CFR), Washington, DC, September 13, 2010
East West Center, public forum on "China Today," Honolulu, HI, August 16, 2010
Tsinghua University School of Public Policy and Management, June 25, 2010
International Finance Corporation (IFC), Washington, DC, June 16, 2010
Foreign Service Institute, US Department of State, Arlington, VA, May 13, 2010
CNA Military Advisory Board Meeting, April 27, 2010
S&ED Pre-Briefing for Special Envoy on Climate Change Todd Stern, April 22, 2010
Brookings Institution, March 18, 2010
World Affairs Council Annual Conference, San Francisco, CA, March 11, 2010
Women Corporate Directors Dinner, Washington, DC, January 13, 2010
UNIDO and Seoul National University, Seoul, Republic of Korea, November 12-13, 2009
Center for Naval Analyses (CNA), Arlington, VA, November 4, 2009
Macquarie Capital Asia Pacific Conference 2009, October 15, 2009, New York, NY
World Resources Institute and the British Embassy Senate Briefing, September 24, 2009
China-US Workshop on Energy and Climate Change, Beijing, China April 9, 2009
Workshop on US-China Cooperation, Hilo, HI, March 18, 2009
MIT Energy Conference, March 6-7, 2009
Boston University, Pardee Center for a Long Range Future, March 6, 2009
Harvard University, Harvard China Project Seminar Series, March 5, 2009
"Good Jobs, Green Jobs" Conference, Washington, February 6, 2009
The United Kingdom meeting of Foreign Service Representatives, Washington, February 3, 2009
Business Roundtable "Climate Resolve" Conference, Washington, November 19, 2008
Foreign Service Institute (FSI), US Department of State, Arlington, VA, November 7, 2008
China Windpower 2008, Beijing China, October 29-31, 2008
US-China Climate Change Dialogue, Worldwatch Institute, CAP and HBF, September 16, 2008
Atlantic Council, Washington, DC, May 13, 2008
GLOBE Parliamentarian Conference, Brasilia, Brazil, February 2008
ECN Side Event and Pew Center Side Event, COP 13, Bali, Indonesia, December 3-14, 2008
Chatham House, workshop on technology transfer, IP and climate change, November 17, 2008
18th Annual Chicago Humanities Festival, November 10, 2007
7th Annual Workshop on Emissions Trading, EPRI, IEA and IETA, Paris, October 8-9, 2007

University of Maryland Graduate School of Public Policy, September 20, 2007
Climate Change Philanthropy Action Network, Taipei, Taiwan September 15, 2007
Energy Research Institute, China National Development and Reform Commission, September 2007
National Religious Partnership for the Environment, July 31, 2007
House Foreign Affairs Committee and National Environmental Trust, Rayburn HOB, July 23, 2007
China National Development and Reform Commission, July 19, 2007
Carbon Finance North America, June 14, 2007 New York, NY
U.S.-China Working Group of the House of Representatives. Cannon HOB, May 24, 2007
24th Meeting of the Subsidiary Bodies to the UNFCCC, Bonn, Germany, May 17-26, 2007
COP 12, Nairobi, Kenya, December 2006
Korean Government Expert Meeting, Jeju, Republic of Korea, October 10-11, 2006
Woodrow Wilson Center's China Environment Forum, Washington, DC, October 2, 2006
National Development and Reform Commission, Beijing, China, July 2006
City University of Hong Kong, July 3-4, 2006
World Bank CDM Host Country Committee Meeting, Cologne, Germany, May 8-9, 2006
American Bar Association national teleconference on renewable energy, April 19, 2006
Industrial College of the Armed Forces of the National Defense University, March 9, 2006
Beijing International Renewable Energy Conference, Beijing, China, November 7-8, 2005
Yale School of Forestry and Environmental Studies, April 12, 2005
Johns Hopkins School of Advanced International Studies, February 28, 2005
China Senior Wind Energy Development Strategy Forum. Beijing, China. September 15-16, 2004
China-U.S. Governmental Working Group on Climate Change, Xi'an, China, March 2004

PROFESSIONAL AFFILIATIONS

International Studies Association (ISA), Environmental Studies Section, 2009-present; American Association for the Advancement of Science (AAAS); Professional Association for China's Environment (PACE), 1999-present; Association for Public Policy Analysis and Management (APPAM), 2013; American Solar Energy Society (ASES), 2012-2013.

LANGUAGE AND MODELING SKILLS

Languages: Mandarin Chinese, French. *Energy/Climate-Related Computer Modeling:* HOMER; RETScreen; ICAM; LEAP (Long Range Energy Alternatives Planning System).

MEDIA

Quoted in numerous media outlets including *The Washington Post*, *The New York Times*, *USA Today*, *The New Yorker*, *US News and World Report*, *Greenwire*, *Climatewire*, *Marketplace*, *Radio Free Asia*, *The Nation*, *PRI's The World*, *Time Magazine*, *CCTV*, *the Huffington Post* and *The Washingtonian*. Television network appearances include *CCTV*, *Al Jazeera* and *ABC*.