**SCOTT M. MOORE**

scottm@alumni.princeton.edu

# <http://scholar.harvard.edu/scott_moore> │ @water\_futures

**EXPERIENCE**

**UNIVERSITY OF PENNSYLVANIA** Philadelphia, PA

**Office of the Provost**

China Program Director / Director of International Policy, August 2018 – Present

**Kleinman Center for Energy Policy**

Senior Fellow, October 2017 - Present

* Conceive and direct innovative research activities and partnerships to better understand key developments impacting the future of China
* Conduct and disseminate research on key issues related to the future of China, especially water, climate change, and technology
* Manage and administer $10 million China Research and Engagement Fund to support research, teaching, and engagement activities in economics, healthcare, artificial intelligence, biomedical research, and other interdisciplinary research areas
* Responsible for developing and implementing the University’s China engagement strategy as part of President Gutmann’s Penn Compact 2020 vision
* Work extensively with internal and external stakeholders to conceive, launch, and support research, teaching, and other partnerships related to China

**WORLD BANK GROUP** Washington, DC

**Climate Change and Water Global Practice**

Young Professional / Water Resource Specialist, February 2016 – August 2018

* Co-led development, management, and implementation of $1 million flagship research and policy advisory project, the "China Water Governance Study,” including oversight and direction of 15 research teams and approximately 50 people based across U.S. and China.
* Co-designed the $200 million Global Water Security and Sustainability Partnership, a first-of-its kind trust fund to finance water sustainability projects worldwide.
* Co-authored and formulated policy recommendations for two flagship World Bank reports on climate change and water scarcity - *High and Dry: Climate Change, Water, and the Economy; Uncharted Waters: The New Economics of Water Scarcity and Variability*.
* Drafted the Bellagio Principles on Valuing Water, the flagship policy recommendation for the U.N. High Level Panel on Water, co-chaired by Presidents of Mexico and Mauritius.
* Developed strategy for World Bank Water Practice engagement in U.N. climate talks.
* Published book manuscript with Oxford University Press.

**U.S. DEPARTMENT OF STATE** Washington, DC

**Office of Chinese and Mongolian Affairs**

Environment, Science, Technology and Health Officer, April 2015 – February 2016

* Hand-selected as Council on Foreign Relations International Affairs Fellow, to provide academic expertise to the State Department, White House, and U.S. interagency on Chinese environmental politics and policy, including as regards climate change, ocean and maritime, and civilian space affairs.
* Led interagency policy development and coordination on U.S. - China environmental issues, including close work with the White House National Security Council and Council on Environmental Quality, Department of Energy, and Environmental Protection Agency.
* Co-drafted Joint Statement on Climate Change issued by President Obama during Chinese President Xi Jinping’s 2015 State Visit, and U.S.-China Climate Leaders Declaration, the first sub-national agreement between U.S. and Chinese cities to limit contributions to climate change. Spearheaded U.S.-China agreement to support creation of a Marine Protected Area in the Ross Sea.
* Served as U.S. delegate to the Paris climate agreement negotiations and designated by Special Envoy for Climate Change as Chinese-speaking representative for U.S.-China bilateral talks and coordinating information flow for Secretary Kerry across ~100-member team.
* Conceived, launched, and implemented first-of-its kind partnership between U.S. and Chinese cities to reduce marine litter and ocean pollution.
* Published academic articles in *Nature*, *Global Environmental Politics*, and others.

**HARVARD UNIVERSITY KENNEDY SCHOOL OF GOVERNMENT** Cambridge, MA **Belfer Center for Science and International Affairs and Sustainability Science Program**

Giorgio Ruffolo Doctoral and Post-Doctoral Research Fellow, September 2012 – August 2014

Research Associate, October 2014 – April 2015

* Designed and implemented first-of-kind environmental politics and policy research projects, including water-energy nexus in China. Produced first English-language scholarly study of politics of South-North Water Transfer Project.
* Briefed academic and non-academic audiences on research findings. Published policy analysis in *International Herald Tribune*, *Los Angeles Times*, *Foreign Affairs*, and others.
* Advised major think tank and Fortune 500 agri-business firm on water scarcity in Asia.
* Organized academic conferences on information and communications technologies to support sustainable development and policy responses to drought.

**BROOKINGS INSTITUTION** Washington, DC; Beijing, China

**John L. Thornton China Center**

Ford Foundation Visiting Researcher, January - August 2012

* Conducted independent fieldwork in China to analyze Yellow River management and governance, including through Chinese-language interviews with local government officials and archival research.
* Analyzed local and regional water resource conflicts. Published findings include Brookings policy brief on water resource issues in China, and peer-reviewed journal article on hydropolitics in China in *China Quarterly*.

**NASA JET PROPULSION LABORATORY**  Pasadena, CA

**Water and Carbon Cycles Group**

Researcher, Summer 2010

* Hand-picked to conduct independent research on groundwater depletion in Yemen, using data from NASA’s Gravity Recovery and Climate Experiment (GRACE) mission.
* Findings published in *Water Resources Management* describing how satellite data can be used to effectively address groundwater depletion in areas featuring complex hydrogeology.

**MAJOR HONORS AND AWARDS**

**World Bank Young Professionals Program 2015**

* Selected from over 4,000 applicants for World Bank’s premier management training program

**International Affairs Fellowship, Council on Foreign Relations 2014**

* Awarded for leadership and contributions to international affairs

**Giorgio Ruffolo Post-Doctoral Research Fellowship, Harvard University 2013**

* Interdisciplinary joint appointment, Belfer Center for Science and International Affairs and Sustainability Science Program, Center for Business and Government

**Rhodes Scholar, Oxford University 2009**

* Awarded for “moral force of character and instincts to lead”

**Fulbright Fellow, China - Ecology and Environmental Studies 2008**

* Conducted research at Peking University’s Environmental Economics and Policy Research Group; published peer-reviewed articles and analysis of China’s energy and climate policy

**Harry S Truman Scholar 2007**

* Awarded graduate [scholarship](http://en.wikipedia.org/wiki/Scholarship) for leadership potential and commitment to public service

**EDUCATION**

# **UNIVERSITY OF OXFORD** Oxford, United Kingdom

**Doctor of Philosophy in Politics, 2013**

* Research focused on water resource conflict and disputes at the sub-national level; included extensive archival and interview-based fieldwork in China.
* Dissertation: Dilemmas of Regional Governance: Sub-National Territorial Politics and River Basin Management in the United States, France, China, and India (Adviser: Nancy Bermeo, Nuffield Professor of Comparative Politics).
* Awards: Queen Elizabeth Scholarship, 2012.

# **UNIVERSITY OF OXFORD** Oxford, United Kingdom

**Master of Science, *with distinction*, in Environmental Change and Management, 2010**

* Research focused on water resource politics and policy in Middle East, including extensive coursework in water resource management and use of Geographic Information Systems.
* Thesis: Charting the Subterranean Sea: The Promise of Groundwater Storage Change Assessment from Satellite Observations and the Persistent Challenges of Water Management in Yemen.

# **PRINCETON UNIVERSITY** Princeton, NJ

# **Bachelor of Arts, summa cum laude, 2008**

* Concentration: Woodrow Wilson School of Public and International Affairs.
* Certificates: Environmental Studies; Chinese Language and Culture.
* Senior thesis research, for which travel grant awarded, examined social and civic impact of military conscription and national service in USA, Europe, Israel, and Singapore (Adviser: Stanley Katz, Lecturer with the Rank of Professor, Woodrow Wilson School).
* Awards: Departmental Highest Honors, 2008; Goldman Sachs Global Leaders Award, 2006.

# **PUBLICATIONS**

**Books and Book Chapters**

*Subnational Hydropolitics: Conflict, Cooperation, and Institution-Building in Shared River Basins.* New York: Oxford University Press, 2018.

“Assessing China’s domestic hydropolitics,” *China and Transboundary Water Politics in Asia*. Hongzhou Zhang and Mingjiang Li, eds. Abingdon, U.K.: Routledge, 2018, 25-42.

“The Three Red Lines and China’s Water Resource Management Policy in the Twenty-First Century,” *Routledge Handbook on China’s Environmental Policy*. Eva Sternfeld, ed. Abingdon, UK: Earthscan, 2017, 71-82. (co-authored with James Nickum and Jia Shaofeng)

“China: Water Issues,” *Encyclopedia of Public Administration and Public Policy*, Third Edition. Dominic Bearfield and Melvin Dubnick, eds. New York: Taylor & Francis 2016, 1-6.

“Development of Water Markets in China,” *Transformational Change in Environmental and Natural Resource Management: Guidelines for Policy Excellence*. Mike Young, ed. New York: Earthscan, 2016, 109-119.

"Rethinking Conflict over Water," *Oxford Research Encyclopedia of Environmental Science*, Oxford University Press, 2016.

**Peer-Reviewed Journal Articles**

# “Legitimacy, Development, and Sustainability: Understanding Water Policy and Politics in Contemporary China,” The China Quarterly [Forthcoming]

“The Political Economy of Flood Management Reform in China,” *International Journal of Water Resources Development* 34 (4): June 2018, 566-577.

# “China’s Domestic Hydropolitics: An assessment and implications for international transboundary dynamics,” International Journal of Water Resources Development 33 (5): May 2017, 1-15.

# “The Dilemma of Autonomy: Decentralization and Water Politics at the Sub-National Level,” Water International 42 (2): January 2017, 1-18.

# “Governing the Depths: Conceptualizing the Politics of Deep Sea Resources,” Global Environmental Politics 16 (2): May 2016, 101-109. (co-authored with Dale Squires)

“Climate Policy: Steps to China’s Carbon Peak,” *Nature*522, June 2015, 279-281.  (co-authored with Zhu Liu, Dabo Guan, Qiang Zhang, Jun Su, and Henry Lee)

“The Development of Water Markets in China: Progress, Peril, and Prospects,” *Water Policy* 17, 2015, 253-267.

“Modernization, Authoritarianism, and the Environment: the Politics of China’s South-North Water Transfer Project,” *Environmental Politics*23 (6), November 2014, 947-964.

“Hydropolitics in China: the Pursuit of Localized Preferences in a Centralized System,” *The China Quarterly* 219, September 2014, 760-780.  

“Challenges and Opportunities in GRACE [Gravity Recovery and Climate Experiment]-Based Groundwater Storage Assessment and Management: an Example from Yemen,” *Water Resources Management,*26 (6): 2012, 1425-1453. (co-authored with Joshua B. Fisher)

“Parchedness, Politics, and Power: the State Hydraulic in Yemen,” *Journal of Political Ecology,*18: 2011, 38-50.

“Strategic Imperative? Reading China’s Climate Policy in Terms of Core Interests,” *Global Change, Peace, and Security,*22 (4): 2011, 147-157.

“Shifting Power in Central-Local Environmental Governance in China: the Regional Supervision Centers,” *China Environment Series*,11: 2010/2011, 188-200.

“Climate Change, Water, and China’s National Interest,” *China Security,*5 (3): 2009, 25-39.

“Peril and Promise: A Survey of India’s Strategic Relationship with Central Asia,” *Central Asian Survey*, 26 (2): 2007, 179-191.

**Opinion-Editorials and Media Commentary (Selected)**

“Trump is weaponizing California’s water issues,” *Los Angeles Times*, November 7, 2018.

“India’s Internal Water Wars,” *India in Transition*, August 27, 2018.

“The Water Wars Within: Preventing Subnational Water Conflicts,” *New Security Beat*, May 30, 2018.

“China’s Ministerial March Madness,” *The National Interest*, April 1, 2018.

“How to Solve the Global Water Crisis,” *Foreign Affairs*, March 20, 2018.

“On ‘Day Zero’ Cape Town Will Run Out of Water. It’s Not the Only City at Risk,” *The Washington Post*, February 5, 2018.

“Pakistan’s Water Crisis is a Ticking Time Bomb,” *The National Interest*, February 4, 2018.

“Even China is tackling climate change, while the US takes a back seat,” *The Hill*, October 16, 2017.

“Why American needs tickle-down diplomacy,” *The National Interest,* August 6, 2017.

“For now, act locally to fight climate change,” *The Philadelphia Inquirer*, June 2, 2017.

“Fishing Boat Diplomacy: How Maritime Cooperation Can Help U.S. – China Relations,” *Foreign Affairs*, September 14, 2016.

"Deep Trouble: Emerging Resource Competition in the Deep Sea," *New Security Beat*, August 10, 2016. (co-authored with Dale Squires)

"India's Water Politics: When Drought Leads to Discord," *Foreign Affairs*, May 29, 2016.

“Water Pricing, Not Engineering, Will Ease Looming Water Shortages,” *The International New York Times*, March 31, 2015.  

“Delhi Dilemma: India is now the biggest barrier to a global climate treaty,” *Foreign Affairs*, November 20, 2014.  

“China and America: Raising the Bar on Climate Change,” *The National Interest,*November 13, 2014.  

“Real Change Will Come from Domestic Policies on Global Warming,” *The New York Times*, Room for Debate: Can we do without a global climate treaty?, September 28, 2014.  

“Pollution Without Revolution: Why China’s environmental crisis won’t bring down the regime,” *Foreign Affairs*, June 11, 2014. 

“The United States of China,” *The International New York Times*, March 11, 2014.

“Good Service,” *Foreign Affairs*, 92 (3): May/June 2013.  

“China’s Massive Water Problem,” *International Herald Tribune,*March 28, 2013.

**Policy Papers, Reports, and Memoranda (Selected)**

“Water Supply in a War Zone: A Preliminary Analysis of Two Urban Water Tanker Supply Systems in the Republic of Yemen.” Washington, D.C.: World Bank, 2018. (co-authored with Naif Abu-Lohom, Yasuo Konishi, Yogita Mumssen, and Bilkis Zabara).

“Uncharted Waters: The New Economics of Water Scarcity and Variability.” Washington, DC: World Bank, 2017. (co-authored with Richard Damania, Sebastien Desbureaux, Marie Hyland, Asif Islam, Aude-Sophie Rodella, Jason Russ, and Esha Zaveri).

“High and Dry: Climate Change, Water, and the Economy,” World Bank Group Water Global Practice. Washington, DC: World Bank, 2016. (co-authored with Richard Damania, Morgan Bazilian, Stephane Dahan, Irina Klytchnikova, Lia Nitake, Diego Rodriguez, Jason Russ, and William Young).

"China Urban Water Blueprint," The Nature Conservancy. Beijing, China: The Nature Conservancy, 2016. (co-authored with Daniel Shemie, Kari Vigerstol, Mu Quan, Nathan Karres, Wang Longzhu, Bai Xiaorui, Giulio Boccaletti, Robert McDonald, Feng Mingmin, Shan Liang, Emily Simmons, Meghan Snow, Qian Yu, Zhang Haijiang, Zhao Peng, Zheng Xinying, Zhu Le, and Cory Zyla),

"Developing a Blue Economy in China and the United States," Center for American Progress. Washington, DC: Center for American Progress, May 2015. (co-authored with Michael Conathan).

 “Water Resource Issues, Policy, and Politics in China,” *Brookings Issue Brief*, John L Thornton China Center, Brookings Institution, January 2013.   

 “The Role of GRACE (Gravity Recovery And Climate Experiment)-Derived Data in Groundwater Resource Management,” *Global Water Forum*, Discussion Paper 1231, August 2012.   

**PRESENTED PAPERS, BRIEFINGS, AND INVITED TALKS (SELECTED)**

“Democracy in a Time of Drought,” Annual Meeting: Democracy and Its Discontents, American Political Science Association, August 30 – September 2, 2018.

“The Future of Water Conflict: Learning from the Past,” Climate Change and Asia, Franke Institute of the Humanities, University of Chicago, May 25, 2018.

“Policies and Governance to enhance urban resilience: impacts of droughts and floods,” Stockholm International Water Week, August 31, 2016.

“Water: Scarcity, Excess, and the Geopolitics of Allocation,” Santander Global TrendLab, Lauder Institute, Wharton School, University of Pennsylvania, March 23-24, 2016.

“Sub-National Hydropolitics,” Workshop on Water and Regional Stability in Asia, National University of Singapore, May 22-24, 2015.

“Water Scarcity in China: Issues, Policies, and Politics,” Seminar on Science, Technology, and Environmental Policy, Woodrow Wilson School of Public and International Affairs, Princeton University, May 5, 2015.

“Authoritarianism, Modernization, and Technocracy in the Yellow River Basin, 1949 – 2012,” Water and Land: Changing Landscapes in China, Fairbank Center for Chinese Studies, Harvard University, March 24, 2015.

“Dilemmas of Regional Governance: Comparing Centralization and Policycentricism in River Basin Management,” Annual Meeting: Politics after the Digital Revolution, American Political Science Association, August 30, 2014.

“Parchedness and Power: the Politics of Water Scarcity,” Annual Meeting: Politics after the Digital Revolution, American Political Science Association, August 29, 2014.

“Learning from Chinese experience with the development of water trading,” Dynamics of Transformational Environmental Policy Reform, Harvard University, March 28, 2014.

“Federalism and Water Resource Management in India: a Comparative Perspective,” Centre for Multilevel Federalism and Institute for Social Science, New Delhi, December 17, 2013.

“Sub-National Geopolitics: Explaining the incidence and persistence of intra-national natural resource disputes in fragmented political systems,” Annual Meeting: Power and Persuasion, American Political Science Association, August 31, 2013.

“Hydropolitics and Central-Local Relations in China: the Pursuit of Localized Interests in a Centralized System,” Challenges of Water Sustainability in Ethnographic and Historical Perspective, Center for

Middle East Studies, Harvard University, April 26-28, 2013.

“The Spatial Life of States: Territorial Politics and Trans-boundary Externalities in Watershed Governance,” Annual Meeting: Representation and Renewal, American Political Science Association, August 30-September 1, 2012.

“Beyond a Global Deal? A UN+ Approach to Climate Governance,” Special Ralph Miliband Debate and Report Launch, London School of Economics and Political Science, May 25, 2011.

“Climate Change, Water, and China’s National Security,” China and Global Climate Change, Center for Asian Pacific Studies, Lingnan University, Hong Kong, June 17-19, 2009.

**ADDITIONAL QUALIFICATIONS AND EXPERIENCE**

**Professional Service**

* Peer Reviewer, *Science*, *Global Environmental Change, The China Journal*.

* Member, Junior Global Advisory Panel, REACH Water Security Programme, Oxford University.
* Member, Aqueduct Food Advisory Board, World Resources Institute.
* House Fellowships Adviser and Non-Resident Tutor, Harvard University, Eliot House, 2012 - 2013; Currier House, 2013 - 2014.

* Lecturer, University of Oxford, “Federalism and the Territorial Dimension of Government and Politics” module for Politics, Philosophy, and Economics (PPE) and History and Politics courses, 2011.

**Other Awards**

* Blakemore Freeman Fellowship, 2013 (Declined)

Awarded for future promise in enhancing American scholarship on Asia.

* APSA Annual Meeting travel grant, 2013

Awarded to junior scholars for research that promises to advance studies of political science.

* *The Atlantic Community* Outstanding Environmental Article Award, 2009

Awarded for article on environmental governance presented to World Economic Forum.

**Relevant Languages and Skills**

* Mandarin Chinese: Research-level proficiency in written and spoken form.

* Geographic Information Systems Software Familiarity: ESRI ArcMap.

* Remote Sensing Applications Experience: Gravity Recovery and Climate Experiment (GRACE); Tropical Rainfall Measuring Mission (TRMM); Global Land Data Assimilation System (GLDAS).