

Da Zhang

Curriculum Vitae

Address

Joint Program on the Science and Policy of Global Change
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Current Position and Affiliations

Postdoctoral Associate, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology (since 06/2014)

Professional and Academic Experience

Intern, Energy Research Institute, National Development and Reform Commission, Beijing, China, 04/2010 – 06/2010.
Intern, Sino-Danish Renewable Energy Development Program / National Renewable Energy Center, 10/2010 – 09/2011.
Intern, Northern Light Venture Capital Company, Beijing, China, 07/2010 – 10/2010.

Education

Ph. D., Institute of Energy, Environment and Economy, Tsinghua University, China, 06/2014.
Visiting student, Chair of Economics / Energy Economics, Department of Management, Technology, and Economics D-MTEC, ETH Zurich, 06/2013 - 08/2013.
Visiting student, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology, 01/2012 - 01/2013.
B.S., Industrial Engineering, Tsinghua University, China, 09/2009.

Research Interest

Energy and Environmental Economics, Economics of Climate Change, Applied General Equilibrium Modeling

Publications

Selected Publication

Davidson, Michael R.*, Da Zhang* (co-first author), Weiming Xiong, Xiliang Zhang, Valerie J. Karplus. Modelling the potential for wind energy integration on China's coal-heavy electricity grid. *Nature Energy* (2016), 1.

Zhang, Da, Marco Springmann, Valerie J. Karplus. Equity and emissions trading in China. *Climatic Change* (2016), 134: 131-146.

Luo, Xiaohu, Da Zhang, Justin Caron, Xiliang Zhang, Valerie J. Karplus, Interprovincial Migration and the Stringency of Energy Policy in China. *Energy Economics*, in press.

Karplus, Valerie J., Sebastian Rausch, Da Zhang*. Energy caps: Alternative climate policy instruments for China? *Energy Economics* (2016), 56: 422-431.

Springmann, Marco, Da Zhang, Valerie J. Karplus. Consumption-Based Adjustment of China's Emissions-Intensity Targets: An Analysis of its Potential Economic Effects. *Environmental and Resource Economics* (2015), 61: 615-640.

Zhang, Da, Valerie J. Karplus, Xiliang Zhang. Emissions Trading in China: Progress and Prospects. *Energy Policy* (2014), 75: 9-16.

Paul Kishimoto, Da Zhang, Valerie J. Karplus. Modeling regional transportation demand in China and the impacts of a national carbon constraint. *Journal of the Transportation Research Board* (2014).

Zhang, Da, Sebastian Rausch, Valerie J. Karplus, Xiliang Zhang. Quantifying regional economic impacts of CO₂ intensity targets in China. *Energy Economics* (2013), 40: 687-701.

Other Peer-reviewed Publication

Zhu, Zhao, Da Zhang*, Peggy Mischke, Xiliang Zhang. Electricity generation costs of concentrated solar power technologies in China based on operational plants. *Energy* (2015), 89: 65-74.

Zhang, Da, Weiming Xiong, Chun Tang, Zhen Liu, Xiliang Zhang. Determining the appropriate amount of subsidies in wind power: The Integrated Renewable Power Planning (IRPP) model and its application in China. *Sustainable Energy Technologies and Assessments* (2014), 6: 141-148.

Zhang, Da, Qimin Chai, Xiliang Zhang, Jiankun He, Li Yue, Xiufen Dong, Shu Wu. Economical assessment of large-scale photovoltaic power development in China. *Energy* (2012), 40: 370-375.

Zhang, Da, Songlin Tang, Bao Lin, Zhen Liu, Xiliang Zhang. Co-benefit of polycrystalline large-scale photovoltaic power in China. *Energy* (2012), 41: 436-442.

Zhang, Da, Xiliang Zhang, Jiankun He, Qimin Chai. Offshore wind energy development in China: Current status and future perspective. *Renewable and Sustainable Energy Reviews* (2011), 15: 4673-4684.

Zhang, Xiliang, Valerie J. Karplus, Tianyu Qi, Da Zhang, Jiankun He. Carbon emissions in China: How far can new efforts bend the curve? *Energy Economics* (2016) 54: 388-395.

Qi, Tianyu, Niven Winchester, Valerie J. Karplus, Da Zhang, Xiliang Zhang. An analysis of China's climate policy using the China-in-Global Energy Model. *Economic Modelling* (2016), 52, Part B: 650-660.

He, Jiankun, Zhiwei Yu, Da Zhang. China's strategy for energy development and climate change mitigation. *Energy Policy* (2012), 53: 7-13.

Conference Papers

Da Zhang, Justin Caron, Niven Winchester, and Valerie J. Karplus. Sectoral aggregation bias in the accounting of emissions embodied in trade and consumption. The 16th GTAP Conference, Shanghai, China, June 2013.

Michael Davidson, Bhaskar Gunturu, Da Zhang, Xiliang Zhang, Valerie Karplus. An integrated assessment of China's wind energy potential. The 16th GTAP Conference, Shanghai, China, June 2013.

Research Projects

Key Person, "Tsinghua-MIT China Energy and Climate Project", funded by multiple sponsors (since 10/2011). <http://globalchange.mit.edu/CECP>.

Founding Member, "International Renewable Energy Learning Partnership", funded by International Renewable Energy Agency (IRENA), 11/2011.

Co-Investigator, "Analysis of Potential Areas for Danish-Chinese R&D Cooperation within Innovative Renewable Energy (RE) Technologies" (jointly with Aalborg University, Denmark), funded by Sino-Danish Renewable Energy Development Program, 03/2011 – 10/2011.

Key Person, "UK-China Collaborative Study on Low Carbon Technology Transfer" (jointly with Sussex University, UK), funded by Department of Energy and Climate Change, UK, 10/2010 – 03/2011.

Professional Activities

2015

- The 2nd Empirical Management Conference, Stanford, U.S., December 2015.
- Invited talk at "New Developments in CGE Modeling" Workshop, Mannheim, Germany, November 2015.
- The 33rd USAEE Conference, Pittsburgh, U.S., October 2015.
- The 2nd Biennial Conference of China Development Studies, Shanghai, China, June 2015.
- The 4th AERE Conference, San Diego, U.S., June 2015.
- Organizer and speaker at the 2nd Chinese Youth Environmental Scholar Forum at Yale University, New Haven, U.S., May 2015.
- Invited discussant at "Brown University workshop on environmental governance in China", Providence, U.S., May 2015.

2014

- Invited talk at "Climate Policy in China and Europe: Progress and Prospects in Emissions Trading" Workshop, Mannheim, Germany, December 2014.
- Moderator at MIT Center for Energy and Environment Policy Research (CEEPR) Workshop, Cambridge, U.S., November 2014.
- Presentation at EPPA Workshop, MIT Joint Program on the Science and Policy of Global Change, Cambridge, U.S., November 2014.
- Invited talk at the 1st Chinese Youth Environmental Scholar Forum at Harvard University, Cambridge, U.S., November 2014.
- Invited talk at Zentrum für Europäische Wirtschaftsforschung (ZEW) lunch seminar, Mannheim, Germany, August 2014.
- Invited research tour at Humboldt University of Berlin, University of Bonn and Deutsche Forschungsgemeinschaft, Germany, August 2014.
- The 5th Lindau Meeting on Economics Sciences, Lindau, Germany, August 2014.
- Invited short visit, Chair of Economics / Energy Economics, Department of Management,

Technology, and Economics D-MTEC, ETH Zurich, Zurich, Switzerland, August 2014.

- The 5th World Congress of Environmental and Resource Economists, Istanbul, Turkey, June 2014.
- The 37th IAEE Conference. New York, U.S., June 2014.
- International Energy Workshop, Beijing, China, June, 2014.

2013

- Invited short visit, Zentrum für Europäische Wirtschaftsforschung (ZEW), Mannheim, Germany, July 2013.
- Annual GTAP conference, Shanghai, China, June 2013.

2012

- The 31st USAEE Conference. Austin, U.S., November 2012.
- The 6th Graduate Climate Conference. Pack Forest, U.S., October 2012.
- Ecomod 2012 Conference, Seville, Spain, July 2012.
- The 4th International Conference on Applied Energy, Suzhou, China, July 2012.
- Annual GTAP conference, Geneva, Switzerland, June 2012.
- MIT Joint Program Student Lunch Seminar, May 2012.

2011

- RETScreen International 2011 Conference, Niagara, Canada, June 2011.

2010

- The 8th National Doctoral Student Forum, Hohhot, China, September 2010.

Fellowships and Awards

Outstanding Reviewer, Energy, 05/2015.

Scholarship for the 5th Lindau Meeting on Economics Sciences, 06/2014.

Excellent Graduate Student in Beijing, 06/2014.

Excellent Graduate Student at Tsinghua University, 06/2014.

Excellent Ph.D. thesis at Tsinghua University, 06/2014.

Best Student Poster Award, the 37th IAEE Conference. New York, U.S., 06/2014.

Excellent Graduate Student for Research (Tsinghua top research award), Tsinghua University, 05/2013.

National Scholarship by Ministry of Education, China, 01/2013.

Outstanding PhD student by Ministry of Education, China, 12/2012.

First Prize Scholarship by Tsinghua University, 11/2012.

Scholarship for a one-year visit at MIT, Tsinghua University, 01/2012 - 01/2013.

Scholarship for attending RETScreen International 2011 Conference (3,000 CAD), National Resources Canada, 06/2011.

Scholarship for attending 2010 Intel-Berkeley Technology Entrepreneurship Competition, Intel Corporation, 11/2010.

Reviewer for Nature Energy, The Energy Journal, Resource and Energy Economics, Energy Economics, Ecological Economics, Climate Policy, Energy, Energy Policy, Environment and Planning C: Government and Policy, Utility Policy, Applied Energy, Journal of Cleaner Production, Resources, Conservation and Recycling, Energy Science and Engineering, Sustainability.