

MING XU, PH.D.

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Department of Civil and Environmental Engineering
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EDUCATION

- **Ph.D.**, Civil and Environmental Engineering, Arizona State University, Tempe, AZ, 2009
- **M.S.**, Environmental Science and Engineering, Tsinghua University, Beijing, China, 2006
- **B.S.**, Environmental Engineering, Tsinghua University, Beijing, China, 2003

PROFESSIONAL EXPERIENCES

- **University of Michigan**
 - Director of China Programs, School for Environment and Sustainability, 09/2017-present
 - Associate Professor
 - School for Environment and Sustainability (formally School of Natural Resources and Environment), 05/2016-present
 - Department of Civil and Environmental Engineering, 05/2016-present
 - Assistant Professor
 - School of Natural Resources and Environment, 09/2010-05/2016
 - Department of Civil and Environmental Engineering, 09/2011-05/2016
 - Co-Director, Graduate Certificate Program in Industrial Ecology, 09/2012-present
 - Core Faculty, Center for Sustainable Systems, 09/2010-present
 - Faculty Associate, Energy Institute, 09/2010-present
 - Faculty Associate, Program in the Environment, 11/2010-present
 - Faculty Affiliate, Erb Institute for Global Sustainable Enterprise, 01/2011-present
 - Faculty Associate, Lieberthal-Rogel Center for Chinese Studies, 04/2012-present
 - Faculty Associate, China Data Center, 11/2015-09/2019
 - Affiliated Faculty, Michigan Institute for Data Science, 11/2015-present
 - Affiliated Faculty, Michigan Institute for Computational Discovery & Engineering, 01/2016-present
- **Georgia Institute of Technology**
 - Postdoctoral Fellow, Brook Byers Institute for Sustainable Systems, 06/2009-08/2010

AWARDS AND HONORS

- ES&T and ES&T Letters Early Career Scientists, 2019 (for *“critical role that early career investigators play in discovering new phenomena and pioneering new approaches for solving old problems”* in the environmental science and technology field)
- Nanova/CAPEES Frontier Research Award, Chinese-American Professors in Environmental Engineering and Science (CAPEES), 2017 (for *“recognized research leadership and pioneered an innovative research area”* in environmental science and engineering)
- Ministry of Science and Technology ERDT Visiting Professor, Republic of the Philippines, 2017
- Visiting Professor, School of Environment, Tsinghua University, China, 2017

- NSF CAREER Award, 2016 (NSF's "most prestigious award in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations")
- Robert A. Laudise Medal, International Society for Industrial Ecology (ISIE), 2015 ("for outstanding achievements in industrial ecology by a researcher under the age of 36")
- Recognized for Impact in Global Education (among 54 faculty/staff members recognized campus wide), Council on Global Engagement, University of Michigan, 2013
- Francois Fiessinger Scholarship, Environmental Research and Education Foundation (EREF), 2008-2010
- Excellent Graduate Award, Tsinghua University, 2006
- Excellent Master Thesis Award, Tsinghua University, 2006
- Tsinghua-Samsung First-Class Scholarship, Samsung Corp., 2006
- Danaher-Hach Environment Scholarship, Danaher Corp., 2005

PROFESSIONAL AFFILIATIONS

- Chinese Society for Industrial Ecology (CSIE), Founding Member, 2015-present
- American Association for the Advancement of Science (AAAS), Member, 2010-present
- American Society of Civil Engineers (ASCE), Student Member, 2006-2009; Associate Member, 2009-present
- Association of Environmental Engineering and Science Professors (AEESP), Member, 2010-present
- International Society for Industrial Ecology (ISIE), Member, 2009-present

EDITORSHIP AND EDITORIAL BOARD MEMBERSHIP

- **Editor-in-Chief**, *Resources, Conservation & Recycling* (Elsevier), 06/2015-present
- **Editorial Board**, *Journal of Environmental Accounting and Management*, 12/2017-present
- **Guest Editor**, Special Issue on Advances in Complex Adaptive Systems and Industrial Ecology, *Journal of Industrial Ecology* (Wiley), 2015
- **Associate Editor**, *Elementa: Science of the Anthropocene - Sustainable Engineering*, 03/2013-present
- **Associate Editor**, *Resources, Conservation & Recycling* (Elsevier), 01/2013-05/2015

SERVICES

School services

- **Chair, Global Engagement Committee**, School for Environment and Sustainability, 09/2017-05/2018
- **PhD Committee**, School for Environment and Sustainability, Winter 2018; Winter 2019
- **Global Engagement Committee**, School of Natural Resources and Environment, 11/2013-12/2016
- **PhD Committee**, School of Natural Resources and Environment, 09/2013-05/2016
- **Research Committee**, School of Natural Resources and Environment, 09/2012-08/2013
- **Faculty Search Committee**, School of Natural Resources and Environment, 09/2011-05/2012

University services

- **China Working Group**, Provost Office, University of Michigan, 04/2019-present
- **Council of Global Engagement**, University of Michigan, 09/2017-present
- **Committee on Environment and Sustainability Programs**, University of Michigan, 01/2016-04/2016

- **Advisory Committee**, University of Michigan Transportation Research Institute (UMTRI), 09/2014-08/2016
- **Internal Review Committee**, University of Michigan Transportation Research Institute (UMTRI), 10/2014-08/2015
- **Executive Committee**, China Data Center, 07/2013-09/2019

Services to scientific and professional organizations

- **Chair**, Gordon Research Conference on Industrial Ecology, 2022 (elected in 2018, Vice Chair in 2020)
- Chinese Society for Industrial Ecology
 - **President**, 01/2018-12/2018
 - **Councilor**, 07/2015-12/2017
- **Award Committee**, Chinese-American Professors in Environmental Engineering and Science (CAPEES), 2018
- **Advisory Board**, Greenometry, 01/2017-present
- International Society for Industrial Ecology
 - **Councilor**, 01/2013-12/2015
 - **Award Committee**, 01/2017-06/2017

- **Invited Referee**

Grant proposals (*Ad hoc* reviewer and panelist):

- Canada Social Sciences and Humanities Research Council
- Environmental Research and Education Foundation
- European Research Council
- Israel Science Foundation
- US National Science Foundation
- US Environmental Protection Agency
- Vienna Science and Technology Fund
- World Bank

Book manuscripts:

- United Nations University Press
- Oxford University Press
- CRC Press

Contest:

- China Food Waste Solution Contest 2017 organized by UNEP, FAO, Swedish Environmental Research Institute

Journal manuscripts:

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| ○ Applied Energy | ○ Environmental Science & Technology |
| ○ Building and Environment | ○ Frontiers of Environmental Science and Engineering |
| ○ Ecological Economics | ○ IEEE Transactions on Engineering Management |
| ○ Ecological Modelling | ○ International Journal of Sustainable Transportation |
| ○ Energy Economics | ○ Journal of Cleaner Production |
| ○ Energy Policy | ○ Journal of Environmental Management |
| ○ Environmental Engineering and Management | ○ Journal of Industrial Ecology |
| ○ Environmental International | |
| ○ Environmental Management | |
| ○ Environmental Science & Policy | |

- Natural Resources
 - Proceedings of the ICE – Engineering Sustainability
 - PNAS
 - Regional Development Dialogue
 - Regional Environmental Change
 - Resources, Conservation & Recycling
 - Science of the Total Environment
 - Sustainability
 - Sustainability Science
 - Water
 - Water Resources Research
 - Waste Management
- **Conference Committees**
 - *Co-Chair*: 2020 International Conference on Resource Sustainability (icRS 2020), June 30-July 2, 2020, Dublin, Ireland
 - *Co-Chair*: 2019 International Conference on Resource Sustainability – Cities (icRS Cities 2019), July 1-3, 2019, Adelaide, Australia
 - *Chair*: International Conference on Resource Sustainability (icRS), June 27-29, 2018, Beijing, China
 - *Advisory Committee*: 2018 International Conferences on Intelligent Manufacturing and Internet of Things (IMIOT'2018) & Intelligent Computing for Sustainable Energy and Environment (ICSEE'2018), September 21-23, 2018, Chongqing China.
 - *Co-Chair*: The 18th International Society for Business Innovation and Technology Management Conference (ISBITM), May 1-3, 2016, Ann Arbor, MI
 - *Leadership Committee*: 2015 International Conference on Sustainable Design, Engineering and Construction (ICSDEC 2015), May 10-13, 2015, Chicago, IL
 - *Poster Session Chair*:
 - 2016 International Symposium on Sustainable Systems and Technology (ISSST), May 16-18, Phoenix, AZ
 - 2015 International Symposium on Sustainable Systems and Technology (ISSST), May 18-20, Dearborn, MI
 - *Organization Committee*: Third ISIE Asia-Pacific Meeting, October 20-21, 2012, Beijing, China
 - *Technical/Program/Scientific Committees*:
 - 2019 International Society for Industrial Ecology (ISIE) Conference, July 7-11, 2019, Beijing, China
 - The 26th CIRP Conference on Life Cycle Engineering, May 7-9, 2019, West Lafayette, IN
 - 2018 International Symposium on Sustainable Systems and Technology (ISSST), June 26-28, 2018, Buffalo, NY
 - Sustainable Asia Conference 2018 (SAC 2018), May 18-21, Beijing, China (Program Committee Co-Chair)
 - 2016 International Conference on Sustainable Infrastructure (ICSI 2016), October 17-19, Shenzhen, China
 - 2016 International Symposium on Sustainable Systems and Technology (ISSST), May 16-18, Phoenix, AZ
 - 2015 International Society for Industrial Ecology (ISIE) Conference, July 7-10, Guildford, UK
 - The 4th Symposium on Industrial Ecology for Young Professionals (SIEYP), July 11, 2015, Guildford, UK
 - 2015 International Symposium on Sustainable Systems and Technology (ISSST), May 18-20, Dearborn, MI

- The 4th International Engineering Systems Symposium (CESUN 2014), June 8-11, Hoboken, NJ
- 2014 International Symposium on Sustainable Systems and Technology (ISSST), May 18-21, 2014, Oakland, CA
- 2013 International Symposium on Sustainable Systems and Technology (ISSST), May 15-17, 2013, Cincinnati, OH
- IADIS International Conference on Sustainability, Technology and Education 2012 (STE 2012), November, 28-30, 2012, Perth, Australia
- 2012 IEEE International Symposium on Sustainable Systems and Technology (ISSST), May 16-18, 2012, Boston, MA
- 2011 IEEE International Symposium on Sustainable Systems and Technology (ISSST), May 16-18, 2011, Chicago, IL
- 2010 IEEE International Symposium on Sustainable Systems and Technology (ISSST), May 16-19, 2010, Washington, DC
- 2009 International Society for Industrial Ecology (ISIE) Conference, June 21-24, 2009, Lisbon, Portugal
- **Founding Chair**, International Conference on Resource Sustainability (icRS)
- **Founding Co-Chair**, The Symposium on Industrial Ecology for Young Professionals (SIEYP)
- **Chair**, Student Chapter, International Society for Industrial Ecology, 2007-2008

TEACHING

- **University of Michigan**
 - EAS 550/Strategy 566, Systems Thinking for Sustainable Development and Enterprise, Winter 2019
 - EAS 573 (formally NRE 573), Environmental Footprinting and Input-Output Analysis, Winter 2013; Winter 2014; Winter 2015; Winter 2018
 - ENVIRON 367, Global Enterprise and Sustainable Development, Fall 2011; Winter 2013; Winter 2015; Winter 2018
 - NRE 501.036, Sustainable Systems in Developing Countries, Winter 2011; Winter 2012

STUDENT/POSTDOCTORAL ADVISEES AND VISITING SCHOLARS

- Postdoctoral advisees
 - Shen Qu, Dow Sustainability Fellow, 2015-present
 - Sai Liang, Dow Sustainability Fellow, 2013-2016 (current position: Professor at Beijing Normal University, China)
- Ph.D. students
 - As Committee Chair
 - Morteza Taiebat, Natural Resources and Environment, expected 2020
 - Ping Hou, Natural Resources and Environment, expected 2019
 - Hua Cai, Natural Resources and Environment & Civil and Environmental Engineering, 2015 (immediate placement: Assistant Professor, Purdue University)
 - As Committee Member
 - Katerina Stylianou, Public Health, 2018 (immediate placement: Research Fellow, University of Michigan)
 - Shamitha Keerthi, Natural Resources and Environment, 2017 (immediate placement: Postdoctoral Researcher, Nature Conservancy)

- Xi Tian, Economics, Beijing University of Technology (immediate placement: Assistant Professor, Beijing University of Technology), 2017
 - Francisco Sotomayor, Civil and Environmental Engineering, 2016 (immediate placement: Application Scientist, Quantachrome Instruments)
 - Zhihao Chen, Industrial Engineering, 2016 (immediate placement: Analyst, Amazon)
 - Sarang Supekar, Mechanical Engineering, 2015 (immediate placement: Research Fellow, University of Michigan)
 - Najet Bichraoui, Environmental Studies and Sustainability (Examiner), University of Technologies of Troyes, 2015
 - Jose Alfaro, Natural Resources and Environment, 2014 (immediate placement: Assistant Professor of Practice, University of Michigan)
 - Xi Wang, Engineering and Public Policy, Carnegie Mellon University, 2013
- Master thesis students
 - As Committee Chair
 - Yichuan Song, Environment and Sustainability, 2020 (expected)
 - Jinming Xu, Environment and Sustainability, 2020 (expected)
 - Kaihui Song, Natural Resources and Environment, 2018 (immediate placement: Ph.D. student, University of Maryland)
 - Zahra Bahrani Fard, Natural Resources and Environment, 2017 (immediate placement: Transportation Systems Analyst, Center for Automotive Research)
 - Yifan Xu, Natural Resources and Environment, 2017 (immediate placement: Sustainability Developer, H&M)
 - Rui Shi, Natural Resources and Environment, 2017 (immediate placement: Ph.D. student, Johns Hopkins University)
 - Zeqi Zhu, Natural Resources and Environment, 2016 (immediate placement: Investor Relationship Manager, Tsing Capital)
 - Jiarui Cai, Natural Resources and Environment, 2016 (immediate placement: Associate Environmental Engineer, Steelcase)
 - Xiaoyue Zhao, Natural Resources and Environment, 2015 (immediate placement: Engineer, China Railway Eryuan Engineering Group)
 - Yu Feng, Natural Resources and Environment, 2014 (current job: Senior Big Data Engineer, EBates)
 - Ye Yue, Natural Resources and Environment, 2013 (immediate placement: Associate Consultant, Bain & Company, Shanghai)
 - Michelle H.W. Lee, Natural Resources and Environment, 2012 (immediate placement: Ph.D. student, Indiana University)
 - Sonika Choudhary, Natural Resources and Environment (Co-Chair), 2012 (immediate placement: Senior Analyst, Pacific Gas & Electric)
 - As Committee Member
 - Shreyas Vangala, Natural Resources and Environment, 2016 (immediate placement: Strategy Analysis, New York Power Authority)
 - Yu-De Lee, Natural Resources and Environment, 2014 (immediate placement: self-employed start-up)
 - Minetta van Strien, Natural Resources and Environment, 2012 (immediate placement: Sustainability Coordinator, Central Community College)

- Master's Projects advised (*capstone of Master's students in School of Natural Resources and Environment, conducted by groups of students with diverse background to solve problems for real-world clients*)
 - Water for All: Sustainable Solutions for Reducing and Utilizing Sarvajal's Reverse Osmosis Brine in Northwestern India (client: Piramal Water Private Limited), 2011-2012
 - Sustainable Enterprise: Plastic Waste Recycling in Jakarta (client: PepsiCo), 2011-2012
 - Pursuing Sustainability with University of Michigan, Patient Food and Nutrition Services: Aligning Sustainable Practices with Healthcare Delivery (client: University of Michigan), 2012-2013
 - Green Infrastructure Analysis, Design and Application in Detroit's Lower Eastside Action Plan (client: Lower Eastside Action Plan), 2012-2013 (secondary advisor)
 - Exploring Commodity Tradeoffs in Soft Commodity Production (client: World Wildlife Fund), 2013-2014
 - The Business Case for Sustainable Agriculture in Asia (client: Kellogg Company), 2014-2015 (secondary advisor)
 - Defining Next Generation Supply Chain Sustainability Performance & Resilience to Climate Change and Environmental Risks (client: Schneider Electric), 2014-2015
 - Carbon Sources, Sinks and Offsets in Global Forest Investment (client: Global Forest Partners LP), 2015-2016
 - Stone Paper LCA (client: Taiwan Lung Meng Technology Co. Ltd), 2015-2016
 - Combination of Water Sensitive Urban Design and Ecological Landscape Design in China (client: SPD Planning & Design Corporation), 2015-2016 (secondary advisor)
 - Natural Capital Valuation and Post-Consumer Waste Assessment: A study of Amcor's Flexible Packaging (client: Amcor), 2016-2017
 - Comparing Carbon Footprints of Brick & Mortar and E-commerce Retail (client: Stitch Fix), 2018-2019
- Undergraduate students
 - Amir Soleimany, Literature, Science, and the Arts (Michigan Internship Learning Environment), 2018
 - Abby Bass, Program in the Environment (Michigan Internship Learning Environment), 2018
 - Imari Willingham, Environmental Engineering, 2018-present
 - Beatrix Yan, Program in the Environment, 2015-2017
 - Kristen Collins, Program in the Environment, 2015-2016
 - Anthony Zheng, Literature, Science, and the Arts, 2015-2016
 - Xintong Zhu, Literature, Science, and the Arts, 2015-2016
 - Kate Peterson, Mechanical Engineering, summer 2015
 - Donald Chao, Business, 2013-2014
 - Austin Smith, Literature, Science, and the Arts, 2012-2014
 - Ranya Ilayian, Literature, Science, and the Arts, 2011-2012
 - Shane Freeman, Economics, 2010-2011
- High school student researchers
 - Harrison Li, Greenhills School, 2018
 - Megan He, Ann Arbor Huron High School, 2014-2016

STUDENT/POSTDOC ACHIEVEMENTS

- Third Place, Student Poster Competition, 2017 Joint Conference for International Society for Industrial Ecology (ISIE) and International Symposium on Sustainable Systems and Technology (ISSST), June 25-29, 2017, Chicago, IL
- Outstanding Paper Award, 18th International Society for Business Innovation and Technology Management Conference (ISBITM), May 1-3, 2016, Ann Arbor, MI
- Third Place, Student Paper Competition, 2014 International Symposium on Sustainable Systems and Technology, May 18-21, 2014, Oakland, CA
- Third Place, Student Poster Competition, 2013 AEESP 50th Anniversary Conference, July 14-16, 2013, Golden, CO
- Second Place, Poster Competition, 3rd Symposium on Industrial Ecology for Young Professionals, June 29, 2013, Ulsan, Korea
- First Place, Student Poster Competition, 7th International Society for Industrial Ecology Biennial Conference, June 25-28, 2013, Ulsan, Korea

DATABASE AND WEBSITE

- Chinese Environmentally Extended Input-Output (CEEIO) Database, <http://www.ceeio.com>

ENTREPRENEURSHIP RECOGNITIONS

- Michigan Business Challenge Semi-Finalist (top 8), University of Michigan, 2014
- Chinese Business Challenge Finalist (top 10), China Entrepreneur Network Michigan, 2013
- Mayleben Venture Shaping Grant, Zell Lurie Institute for Entrepreneurial Studies, University of Michigan, 2013

MEDIA EXPOSURE

- Energy Wire, "Self-driving cars may need more fuel than previously thought," 04/18/2019, <https://www.eenews.net/energywire/stories/1060175895/search?keyword=self-driving%20Michigan>
- E&E News, "Self-driving cars and CO₂ emissions: It's complicated," 09/19/2018, <https://www.eenews.net/climatewire/2018/09/19/stories/1060098281>
- NBC MACH, "This skyscraper-sized air purifier is the world's tallest," 03/21/2018, <https://www.nbcnews.com/mach/science/skyscraper-sized-air-purifier-world-s-tallest-ncna858436>
- China Daily USA, "Microsoft, IBM help on pollution," 01/19/2016
- Al Jazeera English, "News Hour," 01/01/2016

GRANTS

External

- **Single PI**, "2019 International Conference on Resource Sustainability - Cities (icRS Cities 2019)," National Science Foundation, \$30,000, 06/01/2019-05/31/2020. (Xu share: \$30,000)
- **PI**, "High-resolution urban air pollution mapping using fleet vehicles as mobile monitors," DiDi Chuxing, \$150,000, 09/01/2018-08/31/2019. (Xu share: \$131,465)
- **Co-PI** (PI: G. Thun), "Belmont Forum Collaborative Research: The moveable nexus: design-led urban food, water, and energy management innovation in new boundary conditions of change," National Science Foundation, \$250,000, ICER-1832214, 07/15/2018-06/30/2021. (Xu share: \$24,149)

- **Co-PI** (PI: S. Miller), "Changes in energy use and water stress caused by the emergence of the cold chain," National Science Foundation, \$317,786, CBET-1804287, 7/15/2018-6/30/2021. (Xu share: \$14,509)
- **Co-PI** (PI: G. Keoleian), "Travel behavior changes and sustainability implications of CAV fleet deployment," Ford Motor Company, \$150,000, 07/01/2018-12/31/2019.
- **PI**, "UNS: U.S.-China: Integrated Systems Modeling of Food-Energy-Water (FEW) Nexus for Urban Sustainability," National Science Foundation, \$499,990, CBET-1605202, 06/01/2016-05/31/2020. (Xu share: \$409,784)
- **Single PI**, "CAREER: Computational Approaches for Life Cycle Inventory Database Development," National Science Foundation, \$509,800, CBET-1554349, 02/01/2016-01/31/2021.
- **PI**, "Water Scarcity Risk for the Global Trade Network," National Science Foundation, \$319,200, CBET-1438197, 09/01/2014-08/31/2017. (Xu share: \$290,887)
- **PI**, "Developing a Spatially-Explicit Agent-Based Life Cycle Analysis Framework for Improving the Environmental Sustainability of Bioenergy Systems," National Science Foundation, \$309,097, CBET-1132581, 09/01/2011-08/31/2015. (Xu share: \$251,890)
- **Co-PI** (PI: D. Assanis; H. Peng), "CERC-CV: U.S.-China Clean Energy Research Center for Clean Vehicles," Department of Energy, \$12,500,000, DE-PI0000012, 10/01/2010-09/30/2015. (Xu share: \$121,217)
- **Co-PI** (PI: B. Allenby), "The First Symposium on Industrial Ecology for Young Professionals, May 17, 2009 Tempe, AZ," National Science Foundation, \$37,886, GBET-0903619, 05/01/2009-07/31/2009.

Internal

- **PI**, "US-China Conference on Environmental Sustainability," Lieberthal and Rogel Center for Chinese Studies, \$50,000, 01/01/2019-12/31/2019.
- **Co-PI** (PI: D. Cooper), "Sector roadmaps for reducing GHG emissions by 70% in the U.S. by 2050," MCubed, \$60,000, 01/01/2019-05/31/2020.
- **Single PI**, "An interactive website for environmental footprints of products in China," Lieberthal and Rogel Center for Chinese Studies (Outreach Grant), \$9,050, 05/01/2018-02/28/2019.
- **Single PI**, "Mapping greenhouse gas emissions in China," Lieberthal and Rogel Center for Chinese Studies, \$10,374, 05/01/2018-04/30/2019.
- **Single PI**, "Impacts of global water scarcity under climate change on China-US bilateral trade," Lieberthal and Rogel Center for Chinese Studies, \$8,000, 01/01/2017-12/31/2017.
- **PI**, "Defining innovative sustainable solutions for film-based packages," MCubed Diamond sponsored by Procter & Gamble, \$60,000, 01/01/2016-06/30/2017.
- **Single PI**, "Impacts of China's water scarcity on the global trade network," Lieberthal and Rogel Center for Chinese Studies, \$6,900, 01/01/2016-12/31/2016.
- **PI**, "Uncovering the food-energy-water nexus for urban sustainability," MCubed, \$60,000, 10/01/2015-04/29/2017.
- **Co-PI** (PI: A. Agrawal), "Transforming Sustainability Education and Case-Based Teaching," Third Century Initiative, \$1,595,749, 01/01/2016-12/31/2019.
- **Single PI**, "Global Drivers of Greenhouse Gas Emissions of Southeast Asia," Center for Southeast Asian Studies, \$500, 07/01/2015-05/31/2016.
- **Single PI**, "Economic Drivers of Historical Labor Force Variations in Japan," Center for Japanese Studies, \$5,000, 05/01/2015-04/30/2016.
- **Single PI**, "Combination of Water Sensitive Urban Design and Ecological Landscape Design in China (SPD)," International Institute, \$10,000, 05/01/2015-06/30/2016.

- **Single PI**, "Decoupling of Economic Growth and Environmental Pressure in China," Center for Chinese Studies, \$9,459, 06/01/2014-05/31/2015.
- **Co-PI** (PI: O. Jolliet), "Influence of Global Trade on the Human Health Impacts of Particulate Matter Induced by Consumption," MCubed, \$60,000, 09/01/2013-08/31/2014.
- **Single PI**, "Structure of the Global Trade Network," Rackham Sp/Su Research Grant, 05/01/2013-08/31/2013.
- **Co-PI** (PI: P. Adriaens), "An Agent-Based Modeling Approach to Sustainability Driven Value Creation in the Paper Industry," Erb Institute Faculty Affiliate Grant, \$10,000, 07/01/2012-06/30/2013.
- **PI** (U-M), "Integrated Energy-Economy-Environment (3E) Modeling for Clean Vehicle Development in China," UM-SJTU Collaboration on Renewable Energy Science and Technology, \$200,000, 09/01/2012-08/31/2014.
- **PI**, "Advancing the Science of Infrastructure Ecology by Exploring and Explaining Universal Regularities of Urban Sustainability Indicators," UM SNRE Seed Grant, \$29,138, 01/01/2012-08/31/2013.
- **Co-PI** (PI: J. Kelly), "Advancing livable communities: IA of infrastructure greening within Detroit for improved sustainable transportation, water quality, and health," Graham Institute, \$20,000, 11/30/2011-5/31/2012.
- **Single PI**, "Creative solutions for addressing wastewater in India," International Institute, \$10,000, 03/01/2011-06/30/2012.
- **Co-PI** (PI: J. Newell), "Research Roadmap for Urban Sustainability," UM SNRE Seed Grant, \$19,418, 01/01/2011-12/31/2011.

PUBLICATIONS

underlined: student/postdoc/visiting scholar advisees; *corresponding author

My philosophy is to have advisees as first authors for research publications and I am the corresponding author in all manuscripts where I have a major leading role.

Citation profiles

- Google Scholar: <https://scholar.google.com/citations?hl=en&user=V3n7rKMAAAAJ>
- Publons: <https://publons.com/researcher/2829633/ming-xu/>
- Scopus: <http://www.scopus.com/authid/detail.url?authorId=55519747200>

Refereed journals

- J96. Yang, Y.-T.; Qu, S.; Wang, Z.-H.; Xu, M. Sensitivity of sectoral CO₂ emissions to demand and supply pattern changes in China. *Science of the Total Environment* **2019**, in press.
- J95. Taiebat, M.; **Xu, M.*** Synergetic impacts of four emerging technologies for accelerated adoption of electric vehicles: shared mobility, wireless charging, vehicle-to-grid, and vehicle automation. *Journal of Cleaner Production* **2019**, in press.
- J94. Zhao, H.-R.; Qu, S.; Guo, S.; Zhao, H.-R.; Liang, S.; **Xu, M.** Virtual water scarcity risk embodied in international trade under climate change. *Journal of Cleaner Production* **2019**, in press.
- J93. Zhang, S.-D.; Taiebat, M.; Liu, Y.; Qu, S.; Liang, S.; **Xu, M.** Regional water footprints and interregional virtual water transfers in China. *Journal of Cleaner Production* **2019**, in press.
- J92. **Xu, M.**; Liang, S. Input-output networks offer new insights of economic structure. *Physica A* **2019**, in press.
- J91. Qu, S.; Guo, Y.-H.; Ma, Z.-J.; Chen, W.-Q.; Liu, J.-G.; Liu, G.; Wang, Y.-T.; **Xu, M.*** Implications of China's foreign waste ban on the global circular economy. *Resources, Conservation & Recycling* **2019**, *144*, 252-255.

- J90. **Xu, M.***; Cui, Y.-Y.; Hu, M.; Xu, X.-K.; Zhang, Z.-C.; Liang, S.; Qu, S. Supply chain sustainability risk and assessment. *Journal of Cleaner Production* **2019**, *225*, 857-867.
- J89. Taiebat, M.; Stolper, S.; **Xu, M.*** Forecasting the impact of connected and automated vehicles on energy use: a microeconomic study of induced travel and energy rebound. *Applied Energy* **2019**, *247*, 297-308.
- J88. Yang, X.-C.; Yi, S.-J.; Qu, S.; Wang, R.-Q.; Wang, Y.-T.; **Xu, M.** Key transmission sectors of energy-water-carbon nexus pressures in Shanghai, China. *Journal of Cleaner Production* **2019**, *225*, 27-35.
- J87. Cai, H.*; Wang, X.; Adriaens, P.; **Xu, M.*** Environmental benefits of taxi ride sharing in Beijing. *Energy* **2019**, *174*, 503-508.
- J86. Duan, H.-B.*; Song, G.-H.; Qu, S.; Dong, X.-B.; **Xu, M.*** Post-consumer packaging waste from express delivery in China. *Resources, Conservation & Recycling* **2019**, *144*, 137-143.
- J85. Huang, C.-L.; Shen, Q.; Gao, B.; Huang, Y.-F.; Fang, H.-D.; Yan, X.-M.; Cui, S.-H.; **Xu, M.** Effects of urbanization on phosphorus metabolism in a typical agricultural area. *Journal of Cleaner Production* **2019**, *214*, 803-815.
- J84. Wang, H.-X.; Wang, W.-C.; Liang, S.; Zhang, C.; Qu, S.; Liang, Y.-H.; Li, Y.-M.; **Xu, M.**; Yang, Z.-F. Determinants of greenhouse gas emissions from interconnected grids in China. *Environmental Science & Technology* **2019**, *53* (3), 1432-1440.
- J83. Xu, C.-Q.; Jia, M.-Y.; **Xu, M.**; Long, Y.; Jia, H.-F. Progress on environmental and economic evaluation of low-impact development type of best management practices through a life cycle perspective. *Journal of Cleaner Production* **2019**, *213*, 1103-1114.
- J82. Liang, S.; Qu, S.; Zhao, Q.-T.; Zhang, X.-L.; Daigger, G. T.; Newell, J. P.; Miller, S. A.; Johnson, J. X.; Love, N. G.; Zhang, L.-X.; Yang, Z.-F.; **Xu, M.*** Quantifying the urban food-energy-water (FEW) nexus: the case of the Detroit Metropolitan Area. *Environmental Science & Technology* **2019**, *53* (2), 779-788.
- J81. Liu, D.; Liu, J.-C.; Wang, S.-K.; **Xu, M.**; Akbar, S. J. Contribution of international photovoltaic trade to global greenhouse gas emission reduction: the example of China. *Resources, Conservation & Recycling* **2019**, *143*, 114-118.
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- A41. Hou, P.; Cai, J.-R.; **Xu, M.** Similarity-based link prediction for estimating life cycle inventory data. *2017 AEESP Research and Education Conference: Advancing Healthy Communities through Environmental Engineering and Science*, June 20-22, 2017, Ann Arbor, MI.
- A40. Liang, S.; Feng, T.-T.; Qu, S.; Chiu, A. S. F.; Jia, X.-P.; **Xu, M.** Chinese environmentally extended input-output (CEEIO) database. *The Joint 12th International Society for Industrial Ecology (ISIE) Socio-Economic Metabolism Section Conference and the 5th ISIE Asia-Pacific Conference*, September 28-30, 2016, Nagoya, Japan.
- A39. Liang, S.; Qu, S.; Zhu, Z.-Q.; Konar, M.; **Xu, M.** Impacts of local water scarcity risk on global trade network. *24th International Input-Output Conference*, July 4-8, 2016, Seoul, Korea.

- A38. Qu, S.; Wang, H.-X.; Liang, S.; **Xu, M.** A quasi-input-output model to evaluate emission factors of purchased electricity from interconnected grids. *24th International Input-Output Conference*, July 4-8, 2016, Seoul, Korea.
- A37. Liang, S.; Feng, T.-T.; Qu, S.; Chiu, A. S. F.; Jia, X.-P.; **Xu, M.** Chinese environmentally extended input-output (CEEIO) database. *24th International Input-Output Conference*, July 4-8, 2016, Seoul, Korea.
- A36. Cai, J.-R.; Hou, P.; **Xu, M.** Computational approach for estimating missing life cycle inventory data. *2016 International Symposium on Sustainable Systems and Technology (ISSST)*, May 16-18, 2016, Phoenix, AZ.
- A35. Qu, S.; Liang, S.; Zhu, Z.-Q.; Chiu, A. S. F.; Jia, X.-P.; **Xu, M.** Impacts of local water scarcity risk on global trade network. *The 18th International Society for Business Innovation and Technology Management Conference (ISBITM)*, May 1-3, 2016, Ann Arbor, MI.
- A34. Liang, S.; Zhao, Q.-T.; Xue, G.-Y.; **Xu, M.** Preliminary study on Detroit's urban food-energy-water (FEW) nexus. *The 18th International Society for Business Innovation and Technology Management Conference (ISBITM)*, May 1-3, 2016, Ann Arbor, MI.
- A33. Cai, J.-R.; Hou, P.; **Xu, M.** Similarity-based computational approach for estimating missing life cycle inventory data. *The 18th International Society for Business Innovation and Technology Management Conference (ISBITM)*, May 1-3, 2016, Ann Arbor, MI.
- A32. Qu, S.; Wang, H.-X.; Liang, S.; **Xu, M.** A quasi-input-output model to evaluate emission factors of purchased electricity from interconnected grids. *The 18th International Society for Business Innovation and Technology Management Conference (ISBITM)*, May 1-3, 2016, Ann Arbor, MI. [Outstanding Paper Award]
- A31. Cai, H.; **Xu, M.** Urban environmental benefits of ride sharing using autonomous vehicles. *2015 AEESP Research and Education Conference: Environmental Engineering and Science At the Nexus*, June 13-16, 2015, New Haven, CT.
- A30. Zhu, Z.-Q.; Liang, S.; **Xu, M.** Income-based GHG emissions of nations. *8th International Society for Industrial Ecology Biennial Conference*, July 7-10, 2015, Guildford, UK.
- A29. Feng, T.-T.; Liang, S.; **Xu, M.** An open access environmentally extended input-output database for China. *8th International Society for Industrial Ecology Biennial Conference*, July 7-10, 2015, Guildford, UK.
- A28. Liang, S.; Guo, S.; **Xu, M.** Important sectors of the global virtual water network. *8th International Society for Industrial Ecology Biennial Conference*, July 7-10, 2015, Guildford, UK.
- A27. Cai, H.; **Xu, M.** Assessing the environmental benefits of ride sharing in cities. *8th International Society for Industrial Ecology Biennial Conference*, July 7-10, 2015, Guildford, UK.
- A26. Stylianou, K.; Liang, S.; **Xu, M.**; Supekar, S.; Skerlos, S.; Jolliet, O. Global trade, global pollution, global health impacts: are we responsible for Asia? *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.
- A25. Cai, H.; **Xu, M.** Assessing the environmental benefits of ride sharing in cities. *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.
- A24. Guo, R.; Xu, J.; **Xu, M.** Using carbon balance analysis to assess urban sustainability and applications in China. *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.
- A23. Liu, D.; Wang, S.-K.; **Xu, M.**; Guo, S. Domestic and international environmental impacts of solar photovoltaic industry in China: from the views of lifecycle and supply chain. *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.
- A22. Liang, S.; Zhu, Z.-Q.; **Xu, M.** Income-based GHG emissions of nations. *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.

- A21. Liang, S.; Guo, S.; **Xu, M.** Important sectors of the global virtual water network. *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.
- A20. Liang, S.; Feng, T.-T.; **Xu, M.** An open access environmentally extended input-output database for China. *2015 International Symposium on Sustainable Systems and Technology*, May 18-20, 2015, Dearborn, MI.
- A19. Jolliet, O.; **Xu, M.**; Skerlos, S.; Liang, S.; Stylianou, K. Global trade, global pollution, global health impact! Are we also responsible for Asia? *2014 MCubed Symposium, University of Michigan*, October 9, 2014, Ann Arbor, MI.
- A18. Liang, S.; Feng, Y.; **Xu, M.** The structure of global virtual water trade network. *2014 Gordon Research Conference on Industrial Ecology: Transforming the Industrial Metabolism*, June 1-6, 2014, Lucca, Italy.
- A17. Cai, H.; **Xu, M.** Informing electric vehicle public charging infrastructure development using travel patterns mined from big-data. *2014 Gordon Research Conference on Industrial Ecology: Transforming the Industrial Metabolism*, June 1-6, 2014, Lucca, Italy.
- A16. Pandit, A.; Bras, B.; Minne, E.A.; Dunham-Jones, E.; Augenbroe, G.; Jeong, H.; James, J.-A. C.; Newell, J. P.; Weissburg, M.; Brown, M. A.; Chang, M. E.; **Xu, M.**; Begovic, M. M.; Yang, P.; Fujimoto, R. A.; French, S. P.; Thomas, V. M.; Yu, X.; Chen, Y.; Lu, Z.; Crittenden, J. C. Infrastructure Ecology: An evolving paradigm for sustainable urban development. Session Keynote: Environmental Engineering Education. *World Engineers Summit 2013*, September 9-15, Singapore.
- A15. Cai, H.; **Xu, M.** Big data mining for evaluating electric vehicle market acceptance and environmental impacts. *2013 AEESP 50th Anniversary Conference*, July 14-16, 2013, Golden, CO. [Student Poster Competition Third Place]
- A14. Feng, Y.; Liang, S.; **Xu, M.** Structure of the global trade network. *7th International Society for Industrial Ecology Biennial Conference*, June 25-28, 2013, Ulsan, Korea.
- A13. Pontau, P.; Cai, H.; **Xu, M.** Assessing land use impact by clean vehicle systems. *7th International Society for Industrial Ecology Biennial Conference*, June 25-28, 2013, Ulsan, Korea.
- A12. Cai, H.; **Xu, M.** Understanding market acceptance of electric vehicles based on individual travel patterns. *7th International Society for Industrial Ecology Biennial Conference*, June 25-28, 2013, Ulsan, Korea. [Student Poster Competition First Place]
- A11. Cai, H.; **Xu, M.**; Liang, S. Characterizing individual driving patterns through big data mining. *2013 International Symposium on Sustainable Systems and Technology*, May 15-17, 2013, Cincinnati, OH.
- A10. Cai, H.; **Xu, M.** Integrated assessment of clean vehicle systems under constraints of water and land resources. *2012 Gordon Research Conference on Industrial Ecology*, June 17-22, 2012, Les Diablerets, Switzerland.
- A9. Wang, T.; Yue, Y.; **Xu, M.**; Hashimoto, S. Material flows and environmental impact assessment of high-speed rail in Asia. *2012 Gordon Research Conference on Industrial Ecology*, June 17-22, 2012, Les Diablerets, Switzerland.
- A8. **Xu, M.**; Newell, J. P. Infrastructure ecology: a conceptual model for understanding urban sustainability. *6th International Society for Industrial Ecology Biennial Conference*, June 7-10, 2011, Berkeley, CA.
- A7. Jeong, H.; Pandit, A.; Crittenden, J. C.; **Xu, M.**; Perrings, C.; Wang, D.-L.; Williams, E.; Karady, G.; Li, K.; Brown, M.; Begovic, M.; Ariaratnam, S.; French, S. Infrastructure ecology for sustainable and resilient urban infrastructure design. *2010 AIChE Annual Meeting*, November 7-12, 2010, Salt Lake City, UT.

- A6. Kahhat, R.; Kim, J.; **Xu, M.** E-market for e-waste. *2008 IEEE International Symposium on Electronics and the Environment*, May 19-21, 2008, San Francisco, CA.
- A5. **Xu, M.**; Zhang, T.-Z.; Allenby, B. Material metabolism of economic system: physical input monetary output analysis for China. *4th International Society for Industrial Ecology Biennial Conference*, June 17-20, 2007, Toronto, Canada.
- A4. **Xu, M.**; Zhang, T.-Z.; Allenby, B. Physical input monetary output analysis. *4th International Society for Industrial Ecology Biennial Conference*, June 17-20, 2007, Toronto, Canada.
- A3. Kahhat, R.; **Xu, M.**; Kim, J.; Zhang, P. A framework for e-waste collecting and recycling system in the Phoenix metropolitan area. *2007 IEEE International Symposium on Electronics and the Environment*, May 7-10, 2007, Orlando, FL.
- A2. **Xu, M.**; Zhang, T.-Z. A conceptual model for sustainable consumption. *The 4th International Symposium on Environmentally Conscious Design and Inverse Manufacturing*, December 12-14, 2005, Tokyo, Japan.
- A1. Xu, Y.-J.; Zhang, T.-Z.; Shi, L.; **Xu, M.** Material flow analysis in China. *3rd International Society for Industrial Ecology Biennial Conference*, June 12-15, 2005, Stockholm, Sweden.

Editorial/Commentary/Viewpoint

- O11. **Taiebat, M.**; **Xu, M.** Self-driving vehicles and the environment. Aspen Global Change Institute Energy Project Quarterly Research Review, March 2019, <https://www.agci.org/solutions/quarterly-research/2019-03-CAVs>.
- O9. Wang, H.-D.; Han, H.-G.; Liu, T.-T.; Tian, X.; Xu, M.; Wu, Y.-F.; Gu, Y.-F.; Liu, Y.-R.; Zuo, T.-Y. "Internet +" recyclable resources: a new recycling mode in China. *Resources, Conservation & Recycling* **2018**, 134, 44-47.
- O8. Song, G.-H.; Zhang, H.; Duan, H.-B.; **Xu, M.** Packaging waste from food delivery in China's mega cities. *Resources, Conservation & Recycling* **2018**, 130, 226-227.
- O7. Ou, X.-M.; Liu, J.; Yan, X.-Y.; **Xu, M.**; Peng, T.-D.; Wang, Z.-Y. Greater efforts to safeguard CO₂ reduction from EVs in China. *Science*, December 25, 2017 (eLetters), <http://science.sciencemag.org/content/358/6363/569/tab-e-letters>
- O6. Fan, W.-G.; **Xu, M.**; Dong, X.-B.; Wei, H.-J. Considerable environmental impact of the rapid development of China's express delivery industry. *Resources, Conservation & Recycling* **2017**, 126, 174-176.
- O5. Dijkema, G. P. J.; **Xu, M.**; Derrible, S.; Lifset, R. Complexity in industrial ecology: models, analysis, and actions. *Journal of Industrial Ecology* **2015**, 19 (2), 189-194.
- O4. **Xu, M.** Pollute local: your U.S.-bought laptop pollutes other countries, and what we can do about it. *The Conversation* **2014**, October 2, <http://sustainability.umich.edu/conversation/2014/10/pollute-local-your-u-s-bought-laptop-pollutes-other-countries-and-what-we-can-do-about-it/>
- O3. **Xu, M.***; Weissburg, M.; Newell, J. P.; Crittenden, J. C. Developing a science of infrastructure ecology for sustainable urban systems. *Environmental Science & Technology* **2012**, 46 (15), 7928-7929.
- O2. Shi, H.-J.; Liang, S.; Wang, Z.; Zhu, J.-M.; Chen, W.-Q.; **Xu, M.**; Shi, L. Science, systems and sustainability: ISIE 2011 conference review. *Acta Ecologica Sinica* **2011**, 31 (21), 6641-6644. [in Chinese]
- O1. **Xu, M.*** Comment on "Dealing with electrical and electronic equipment waste in Colombia: the case of TV sets" by L.-A. Rodríguez B., E. Estupiñán E., and F. Boons. *Regional Development Dialogue* **2010**, 31 (2), 122-123.

INVITED TALKS

- Closing the Loop on the Plastic Dilemma: A Chemical Sciences Roundtable Workshop, The National Academies of Sciences, Engineering, and Medicine, Washington DC, 5/9-5/10/2019
- AI for FEW: International Symposium on AI and FEW, New York, NY, Tencent, 04/02/2019
- School of Material Sciences and Engineering, Beijing University of Technology, 03/04/2019
- School of Environmental and Chemical Engineering, Nanchang Hangkong University, 02/28/2019
- Center for Water Technology and Policy, The University of Hong Kong, 11/30/2018
- Division of Civil Engineering, Pontificia Universidad Católica del Perú, 11/19/2018
- Department of Civil and Environmental Engineering, University of Illinois Urbana-Champaign, 10/27/2018
- South China Institute of Environmental Sciences, PRC Ministry of Ecology and Environment, Guangzhou, 10/12/2018
- Universitas 21 Early Career Researcher Workshop, Shanghai, China, 10/10/2018
- School of Civil Engineering, Shenzhen University, Shenzhen, China, 7/14/2018
- School of Economics, Nagoya University, Nagoya, Japan, 7/10/2018
- School of Economics and Management, Beijing Jiao Tong University, Beijing, China, 7/5/2018
- Didi Chuxing, Beijing, China, 06/29/2018
- Ford Motor Company, Dearborn, Michigan, 05/11/2018
- Sino-Nordic Symposium on Sustainable Food Consumption and Management, Shanghai, China, 01/13-14, 2018
- US-China Joint Symposium on the Nexus of Food, Energy, and Water Systems, Nashville, Tennessee, 12/07/2017
- Workshop on Urban Infrastructures: Analysis and Modeling for Their Optimal Management and Operation, New York Institute of Technology, New York, 11/30/2017
- Department of Environmental Science and Engineering, Fudan University, Shanghai, China, 11/09/2017
- Sustainable Agriculture Matrix Workshop, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, Maryland, August 28-31, 2017
- Policy Forum on Climate Adaptation Science (PFoCAS), Chinese Academy of Sciences, Beijing, China, 08/18/2017
- 2017 International Association for Energy Economics Summer School, China University of Geosciences, Beijing, China, 07/11/2017
- College of Environmental Science and Engineering, North China Electric Power University, Beijing, China, 05/27/2017
- School of Resources and Environmental Engineering, Jiangxi University of Science and Technology, Ganzhou, China, 05/23/2017
- Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hong Kong, China, 04/28/2017
- School of Management, China University of Mining and Technology, Xuzhou, China, 04/21/2017
- School of Environment and Architecture, Shanghai University of Science and Technology, Shanghai, China, 04/20/2017.
- Industrial Ecology and Sustainable Construction Workshop: Smart and Low-carbon Transition of Urban and Industrial Systems, Chongqing University, Chongqing, China, 04/15/2017
- Center for Human-Environment System Sustainability, Beijing Normal University, Beijing, China, 03/13/2017
- Institute of Ecology and Biodiversity, Shandong University, Jinan, China, 01/18/2017
- Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China, 01/04/2017

- School of Economics and Management, Beijing Jiaotong University, Beijing, China 12/30/2016
- College of Environmental Science and Engineering, Beijing Forestry University, Beijing, China, 12/23/2016
- College of Management, Asia University, Taichung City, Taiwan, China, 12/09/2016
- College of Management, National Chin-Yi University of Technology, Taichung City, Taiwan, China, 12/06/2016
- College of Management, Lунghwa University of Science and Technology, Taoyuan City, Taiwan, China, 12/05/2016
- Interdisciplinary Research Forum, Institute of Urban Environment, Chinese Academy of Sciences, Xiamen, China, 12/03/2016
- School of Economics, Renmin University, Beijing, China, 12/01/2016
- 2016 Shandong International Forum on Industrial Ecology, Institute of Science and Technology for Development of Shandong, Jinan, China, 11/29/2016
- School of Environmental and Safety Engineering, Qingdao University of Science and Technology, Qingdao, China, 11/28/2016
- Chinese Research Academy of Environmental Sciences, Beijing, China, 11/25/2016
- China Association of Circular Economy, Beijing, China, 11/22/2016
- School of Economics, Peking University, Beijing, China, 11/21/2016
- Chinese Academy for Environmental Planning, Beijing, China, 11/17/2016
- Focus on the Future Automotive Research Conferences: Inside China, University of Michigan Transportation Research Institute, Ann Arbor, Michigan, 11/09/2016
- School of Humanity, Economics and Management, China University of Geosciences, Beijing, China, 11/01/2016
- School of Economics and Management, North China Electric Power University, Beijing, China, 10/31/2016
- School of Economics and Management, Beihang University, Beijing, China, 10/28/2016
- School of Environmental Science and Engineering, Southern University of Science and Technology, Shenzhen, China, 10/21/2016
- 2016 International Conference on Sustainable Infrastructure, Shenzhen, China, 10/18/2016 (keynote)
- School of Business, Dalian University of Technology, Panjin, China, 9/22/2016
- 4th Asia-Oceania Algae Innovation Summit, Wuhan, China, 9/21/2016
- College of Geography and Environment Science, Northwest Normal University, Lanzhou, China, 8/25/2016
- College of Earth Environmental Sciences, Lanzhou University, Lanzhou, China, 8/25/2016
- Chinese Research Academy of Environmental Sciences, Beijing, China, 8/22/2016
- Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China, 8/21/2016
- Microalgae Biotech Center, State Development & Investment Corp., Beijing, China, 8/3/2016
- School of Economics and Management, Zhejiang Sci-Tech University, Hangzhou, China, 7/20/2016
- 2016 China Association of Circular Economy Conference, Beijing, China, 6/26/2016
- School of Business, East China University of Science and Technology, Shanghai, China, 6/7/2016
- College of Management, National Chin-Yi University of Technology, Taichung City, Taiwan, China, 6/3/2016

- College of Management, Lunghwa University of Science and Technology, Taoyuan City, Taiwan, China, 6/2/2016
- The 18th International Society for Business Innovation and Technology Management Conference (ISBITM), May 1-3, 2016, Ann Arbor, Michigan (keynote)
- Department of Civil and Environmental Engineering, North Carolina State University, Raleigh, North Carolina, 4/14/2016
- University of Michigan Transportation Research Institute, Ann Arbor, Michigan, 3/29/2016
- School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia, 3/1/2016
- School of Environment, Beijing Normal University, Beijing, China, 8/17/2015-8/19/2015
- School of Environment, Tsinghua University, Beijing, China, 8/18/2015
- School of Environmental Science and Engineering, Peking University, Beijing, China, 7/7/2015
- Chinese Environmental Scholars Forum, Yale University, New Haven, Connecticut, 5/30/2015
- School of Recycling Economy, Beijing University of Technology, Beijing, China, 4/29/2015
- China Date Center, University of Michigan, Ann Arbor, Michigan, 11/7/2014
- Department of Civil and Environmental Engineering, University of Pittsburgh, Pittsburgh, Pennsylvania, 9/19/2014
- Institute of Circular Economy, Beijing University of Technology, Beijing, China, 8/19/2014
- Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor, Michigan, 4/8/2014
- Chinese Research Academy of Environmental Sciences, Beijing, China, 4/2/2014
- Modeling Social, Technical and Natural Systems for Policy, Massachusetts Institute of Technology, Boston, Massachusetts, 9/25-27, 2013
- Workshop on Industrial Ecology & System Thinking (WIEST), University of Ulsan, Ulsan, South Korea, 6/24/2013
- How Green is the Internet? Google, Mountain View, California, 6/6/2013
- Center for Chinese Studies, University of Michigan, Ann Arbor, Michigan, 4/9/2013
- School of Environment, Nanjing University, Nanjing, China, 5/10/2012
- School of Environmental and Safety Engineering, Qingdao University of Science and Technology, Qingdao, China, 5/9/2012
- School of Environment, Tsinghua University, Beijing, China, 5/4/2012
- Shanghai Key Lab for Urban Ecological Processes and Eco-Restoration, East China Normal University, Shanghai, China, 5/2/2012
- Center for Environmental Studies, Brown University, Providence, Rhode Island, 4/6/2012
- College of Architecture and Environment, Sichuan University, Chengdu, China, 12/23/2011
- China Project, Harvard University, Boston, Massachusetts, 12/1/2011
- School of Environmental Science and Engineering, Shanghai Jiao Tong University, Shanghai, China, 9/26/2011
- Global Change Research Institute, Xi'an Jiao Tong University, Xi'an, China, 4/29/2011
- School of Environment, Tsinghua University, Beijing, China, 4/26/2011
- Department of Civil & Environmental Engineering, University of Michigan, Ann Arbor, Michigan, 11/23/2010
- Erb Institute for Global Sustainable Enterprise, University of Michigan, Ann Arbor, Michigan, 11/22/2010
- Department of Civil & Environmental Engineering, Rice University, Houston, Texas, 2/12/2010

- School of Natural Resources and Environment, University of Michigan, Ann Arbor, Michigan, 1/20/2010
- Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China 11/26/2009
- Brook Byers Institute for Sustainable Systems, Georgia Institute of Technology, Atlanta, Georgia, 4/10/2009