

Ming Xu

Ph.D. Candidate

Graduate Research Associate

Center for Earth Systems Engineering and Management

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EDUCATION

- Ph.D. in Environmental Engineering, Arizona State University, U.S.A., expected 2009
- M.S. in Environmental Science and Engineering, Tsinghua University, China, 2006
- B.S. in Environmental Engineering, Tsinghua University, China, 2003

RESEARCH TRAINING

- Postgraduate Research Training Course, Ecological Design, Norwegian University of Science and Technology, 2007

ACADEMIC APPOINTMENTS

- Graduate Research Associate, Dept. of Civil and Environmental Engineering, Ira A. Fulton School of Engineering, Arizona State University, 2006 to present, Advisor: Prof. Braden Allenby
- Graduate Research Assistant, SEPA Key Laboratory of Eco-Industry, and Institute of Environmental System Analysis, Dept. of Environmental Science and Engineering, Tsinghua University, 2003-2006, Advisor: Prof. Tianzhu Zhang

AWARDS AND HONORS

- Travel Grant, Graduate and Professional Student Association (GPSA), Arizona State University, 2008
- Marie Curie Actions Fellowship, Postgraduate School of Industrial Ecology (PSIE), Norwegian University of Science and Technology, 2007
- ISIE Conference Scholarship, International Society for Industrial Ecology, 2007
- Conference Travel Grant, Graduate College, Arizona State University, 2007
- Carl Storm International Diversity Fellowship, Gordon Research Conferences, 2006
- 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
- ISIE Conference Scholarship, International Society for Industrial Ecology, 2005
- Excellent Graduate Student, Dept. of Environmental Science and Engineering, Tsinghua University, 2005
- Tsinghua Scholarship for Excellent Learning, Tsinghua University, 2004
- Tsinghua Innovation Scholarship for Excellent Graduate Student, Tsinghua University, 2003
- Tsinghua Scholarship for Excellent Social Service, Tsinghua University, 2001-2002 (twice)
- Tsinghua Scholarship for Excellent Freshman, Tsinghua University, 1999

PROFESSIONAL AFFILIATIONS

Ming Xu, Mar., 2008

- Student Chapter of International Society for Industrial Ecology (ISIE), President, 2007-present; Chair for Communication, 2006-2007; Chair for Conference and Funding, 2005-2006
- American Society of Civil Engineers (ASCE), Student Member, 2006-present
- European Association of Environmental and Resource Economists (EAERE), Member, 2006-2007
- International Society for Industrial Ecology (ISIE), Student Member, 2005-present

PUBLICATIONS

Journal Articles, peer reviewed

1. **Xu, M.**, Zhang, T., and Allenby, B. (forthcoming). How much will China weigh? Perspectives from consumption structure and technology development. *Environmental Science & Technology*.
2. **Xu, M.**, Zhang, T., and Allenby, B. (forthcoming). Physical input monetary output model: Input-output analysis on ecological economic systems. *Ecological Economics*.
3. **Xu, M.**, Jia, X., Shi, L., and Zhang, T. (forthcoming). Material metabolism in northeast China: Case study of Liaoning Province. *Resources, Conservation & Recycling*.
4. **Xu, M.** and Zhang, T. (2007). Material flow and economic growth in developing China. *Journal of Industrial Ecology*, 11(1): 121-140.
5. **Xu, M.**, Jia, X., Shi, L., and Zhang, T. (2006). Accounting and analysis of material metabolism in the economics system of Liaoning Province. *Resources Science*, 28(5): 127-133.
6. **Xu, M.** and Zhang, T. (2005). Material input analysis of China economic system. *China Environmental Science*, 25(3): 324-328.
7. **Xu, M.** and Zhang, T. (2004). Material flow analysis on fossil fuel in Chinese economy system. *Journal of Tsinghua University (Science and Technology)*, 44(9): 1166-1170.

Book Chapters

8. Xu, Y., Zhang, T. and **Xu, M.** (2006). Case studies of material flow analysis in China. in Qian, Y. ed. *Cleaner Production and Circular Economy: Concepts, Methodology, and Case Studies*. Beijing: Tsinghua University Press, 2006, 75-88.

Conference Proceedings and Presentations

9. **Xu, M.**, Kim, J., Kahhat, R., and Allenby, B. (2008). Market dynamics and environmental impacts of e-commerce: A case study on book retailing. 2008 IEEE International Symposium on Electronics and the Environment. May. 19-21, San Francisco, CA.
10. Kim, J., **Xu, M.**, Kahhat, R., Allenby, B., and Williams, E. (2008). Design and assessment of a sustainable networked system in the U.S.: Case study of book delivery system. 2008 IEEE International Symposium on Electronics and the Environment. May. 19-21, San Francisco, CA.
11. Kahhat, R., Kim, J., and **Xu, M.** (2008). E-market for e-waste. 2008 IEEE International Symposium on Electronics and the Environment. May. 19-21, San Francisco, CA.
12. Williams, E., Kahhat, R., Allenby, B., Kavazanjian, E., **Xu, M.**, Kim, J. (2008). Sustainability review of the international reverse chain for reuse and recycling of computers. 2008 IEEE International Symposium on Electronics and the Environment. May. 19-21, San Francisco, CA.
13. **Xu, M.**, Zhang, T., and Allenby, B. (2007). Material metabolism of economic system: Physical input monetary output analysis for China. International Society for Industrial Ecology (ISIE) Conference 2007, Jun. 17-20, Toronto, Canada.
14. **Xu, M.**, Zhang, T., and Allenby, B. (2007). Physical input monetary output analysis. International Society for Industrial Ecology (ISIE) Conference 2007, Jun. 17-20, Toronto, Canada.
15. Kahhat, R., **Xu, M.**, Kim, J., and Zhang, P. (2007). 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, Orlando, FL, USA.

16. **Xu, M.** and Zhang, T. (2005). Material flow input analysis in China. in: Fang G, Wang M, and Lu Z, eds. Proceedings of the Tenth Mainland-Taiwan Environmental Protection Academic Conference. Taipei: Gau Lih Book Co., Ltd, 625-628.
17. Xu, Y., Zhang, T., Shi, L., and **Xu, M. (presenting author)**. (2005). Material flow analysis in China. The 3rd International Conference of the International Society for Industrial Ecology. Jun. 12-15, Stockholm, Sweden.
18. **Xu, M.** and Zhang, T. (2004). Material flow accounting and analysis in China. Proceeding of the 2nd International Conference on Environmental Concerns. Oct. 12-15, Xiamen, China.
19. Zhang, T. and **Xu, M.** (2004). Material flow analysis: A base of greening the system of national economic accounting. Proceeding of the International Workshop on Greening China National Account System. Jun. 24-25, Hangzhou, China, 207-213.
20. **Xu, M.** and Zhang, T. (2004). Accounting and analyzing of total material requirement of Chinese fossil fuel. Proceeding of the 9th Mainland-Taiwan Environmental Protection Conference. May. 10-15, Xi'an, China.

Education Modules

21. **Xu, M.**, Allenby, B., and Kim, J. (2008). Input-output analysis for sustainability. Center for Sustainable Engineering Electronic Library, <http://www.ce.cmu.edu/~cse/5aug07%20Allenby%20IO.pdf>.
22. Kim, J., Allenby, B., and **Xu, M.** (2008). Sustainability network theory and industrial systems. Center for Sustainable Engineering Electronic Library, <http://www.ce.cmu.edu/~cse/15may07%20Allenby%20Sust%20Network%20Theory.pdf>.

CAMPUS AND COMMUNITY ACTIVITIES

- Committee member, Tsinghua Alumni Association of Arizona (TAAA), 08/2007-present
- Co-founder and President (08/2007-12/2007) of Sustainability Research Team (SRT), Arizona State University
- Member of Salle Diablo Fencing Club, majoring in Foil, Arizona State University, U.S.A., 08/2006-present
- Member of Fencing Team, majoring in Foil, Tsinghua University, China, 10/2004-07/2006
- National 1st-class Registered Football (soccer) Referee, Beijing, China, 09/2003-07/2006