

**PEILEI FAN**  
**Curriculum Vitae**  
February 10, 2022

Michigan State University  
School of Planning, Design and Construction (SPDC) &  
Center for Global Change and Earth Observations (CGCEO)  
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## **EDUCATION**

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**Ph.D.**, Economic Development, *Massachusetts Institute of Technology (MIT)* 2003  
Dissertation: *Made in China, the rise of the domestic firms in China's ICT industry* (Dissertation Committee: Karen R. Polenske (Chair & Ph.D. Advisor), Alice Amsden, & Gary Jefferson)

**Best dissertation award**, Department of Urban Studies and Planning  
Certificate of Financial Engineering, Sloan School of Management

**Master of Science**, Electrical Engineering and Computer Science, *MIT* 2001  
Master Thesis: *A Design and Implementation of a General-purpose Translator for IPv6/IPv4 (GT64)* (Advisor: Robert T. Morris)

**Master of City and Regional Planning**, Urban Planning, *Rutgers University* 1998  
(Advisor: Ann Markusen)

**Master of Science**, Geography, *Nanjing University, China* 1995  
(Advisor: Gonghao Cui)

**Bachelor of Science**, Computer Science, *Nanjing University, China* 1993

## **ACADEMIC POSITIONS**

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**Michigan State University (MSU)**

- **Interim Director**: 2021-2022  
Center for Global Change and Earth Observations (CGCEO)

- **Professor** (2019-)
- **Associate Professor** (2013-2019)
- **Assistant Professor** (2007-2013)
  - Tenure Home: Urban and Regional Planning Program, School of Planning, Design and Construction (SPDC) 2007-
  - Center for Global Change and Earth Observations (CGCEO)

- Joint appointment: 2010-; Adjunct faculty: 2007-2010
- Department of Geography, Environment, & Spatial Science,
  - Adjunct faculty: 2011-
- Affiliated Faculty member of
  - (1) Environmental Science and Policy Program (ESPP),
  - (2) Global Urban Studies Program (GUSP), and
  - (3) Asian Studies Center (ASC)

### **United Nations University**

- **Postdoctoral Fellow**, 2003-2006

*Japan Society for Promotion of Science (JSPS) and United Nations University-Institute of Advanced Studies (UNU-IAS)*

Worked on projects of innovation and economic development in China, Japan, and India

## **RESEARCH AREAS**

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Innovation and economic development, urban sustainability, environment, public health, international planning

## **CONSULTANCY**

### ***MSU Regional Economic Innovation (REI)*** 2018-2019

*Consultative Panel: Counsel on the substantive content and regional collaboration issues and factors instrumental to enhance the competitiveness of Michigan's regional innovation clusters; Assist in ensuring that state-of-the-art development knowledge and practices are embedded in the work of REI*

### ***Asian Development Bank (ADB)*** 2015-16

Commissioned Project: preparing a paper on "The role of innovation in escaping the middle-income trap" for ADB Institute Conference "Escaping the Middle-Income Trap: Urbanization, Structural Change, and Sustainable Development in Asia"

### ***Asian Development Bank (ADB)*** 2014-15

Economist for ADB Project "The Urbanization-Poverty-Inequality Triangle in Asia and the Pacific: Urban expansion and evolution of walkability of Chinese cities"

### ***Asian Development Bank (ADB)*** 2012

Economist for ADB Project "Urbanization in Asia"

### ***United Nations University – World Institute of Development Economics Research (UNU-WIDER)*** 2008

Consultant for UNU-WIDER Project "CIBS-Southern Engines of Global Growth: China, India, Brazil, and South Africa"

## RESEARCH GRANTS (Funded)

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### External

Principal Investigator (PI) **Peilei Fan** (Grant #: 80NSSC20K0740; Co-PI: Joseph Messina at University of Alabama). 2020-2023. "Divergent Local Responses to Globalization: Urbanization, Land Transition, and Environmental Changes in Southeast Asia (SEAGUL)" *National Aeronautics and Space Administration (NASA)* (my portion of the grant of MSU: 100%)

Funded: \$748,148

Principal Investigator (PI) **Peilei Fan** (Grant #: NNX15AD51G; Co-PI: Jiquan Chen; Collaborators: Nathan Moore, Joseph Messina, Dengsheng Lu). 2015-2018. "Urbanization and sustainability under global change and transitional economies: Synthesis from Southeast, East, and North Asia (SENA)," *National Aeronautics and Space Administration (NASA)* (my portion of the grant: 40%)

<http://senacgc.org/>

Funded: \$749,683

Qi, Jiaguo, Hyndman, David W., Kramer, Daniel B., Pokhrel, Yadu N., **Fan, Peilei**, Messina, Joseph P., Zhao, Jinhua, McConnell, William J. 2017-2019. "Quantifying human and climate impacts on wetland ecosystems in the Lower Mekong River Basin," *National Aeronautics and Space Administration (NASA)* Award #80NSSC17K0259 (my portion of the grant: 7%)

Funded: \$2,173,112

Chen, Jiquan, Woolford, A.P., Graham, Norman, A., **Fan, Peilei**. 2020-2021. "Development of Key Curriculum for Ecology and Environmental Science in Kazakhstan Academic Institutions. American Councils for International Education. (my portion of the grant: 20%)

Funded: \$20,000

Neisler, Gretchen, Schultink, Gerhardus, **Fan, Peilei**. 2013-2017. "Tenure and Global Climate Change (TGCC) under Strengthening Tenure and Resource Rights (STARR)," US Agency for International Development (my portion of the grant: 10%)

Funded: \$155,364

Principal Investigator **Peilei Fan** (Grant #: NNX09AI32G; Co-PIs: Joseph Messina, Nathan Moore, Jianjun Ge, Peter Verburg). 2009-2013. "China's Urbanization and its Sustainability under Future Climate Change," *National Aeronautics and Space Administration (NASA)* (my portion of the grant: 45%)

Funded: \$621,496

Co-Principal Investigator **Peilei Fan** (PI: Yifei Sun, California State University, Northridge). 2011-2014. "Workshop on Chinese Ways of Innovation: Strategic

Directions of Research on Chinese Innovation,” *National Science Foundation (NSF)*

Funded: \$58,188

Principal Investigator **Peilei Fan**. 2004-2006. “Comparative Study of Japan, China, and US innovation policy and the impact of the ICT Industry,” *Japan Society for the Promotion of Science (JSPS)*

Funded: 2700,000 yen (\$25,300)

## Internal

Principal Investigator **Peilei Fan** (Co-Is: Jiquan Chen). 2020-21. “COVID-19, Economic Vitality, and Environmental Impact: Global Synthesis & Urban Perspective” *College of Social Science Covid-19 Small Grants, Michigan State University*

Funded: \$5000

Principal Investigator **Peilei Fan** (Co-Is: Jiquan Chen). 2019-2020. “Urbanization, economic development, environmental change, and social conditions: A global assessment and regional perspective” *2019-20 SPDC Built, Natural and Virtual Environments Mini-Grant Program, Michigan State University*

Funded: \$5000

Principal Investigator **Peilei Fan**. (Co-Is: Jiquan Chen, Zeenat Kotval-Karamchandani Yue Cui; Collaborators: Linda Keilman, Joseph Messina, Joe Darden, Noah Durst). 2019-2020. “Human Health and Causes across the Physical-Social Landscapes in Michigan Cities” *School of Planning, Design, and Construction (SPDC), Director’s Interdisciplinary Research Initiative Fund Michigan State University*

Funded: \$12900

Principal Investigator **Peilei Fan**. 2019. “Integration of online market place and main street in Michigan communities: Drivers, impacts, and policy implications” *MSU EDA University Center for Regional Economic Innovation (REI) 2019 Co-learning Plan, Michigan State University*

Funded: \$8000

Principal Investigator **Peilei Fan**. 2015. “Coupled Human-Natural System in Siberia: Urban Sustainability and Natural Resource Dynamics in a Changing Globe and Transitional Economy” *Center for Global Connection in Food, Agriculture and Natural Resources (CGC), Michigan State University*

Funded: \$7132

Principal Investigator **Peilei Fan**. 2008-2009. “Research publication in innovation in Asia and urban sustainability in China,” *Center for Advanced Studies of International Development (CASID), Michigan State University*

Funded: \$9,000

Principal Investigator **Peilei Fan**. 2007-2009. “Innovation, globalization, and catching-up by Chinese high-tech firms,” *Intramural Research Grant Program, Michigan State University*

Funded: \$28,926

## HONORS AND AWARDS

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**Public Intellectuals Program (PIP) Fellow**, *National Committee on US-China Relations (NCUSCR)*. 2019-2020. (Note: The Public Intellectuals Program (PIP), launched by the National Committee in 2005, is dedicated to nurturing the next generation of China specialists who, in the tradition of earlier China hands, have the interest and potential to venture outside of academia to engage with the public and policy communities.)

**Cross-disciplinary Faculty Research Award**, *College of Social Science, Michigan State University*. 2018-19. (Note: The Cross-disciplinary Faculty Research Award is presented annually to recognize and encourage significant research achievements on issues of societal relevance not easily identified with a single discipline, or that require collaboration across multiple disciplines.)

**Core Fulbright US Scholar** of Cross-Strait Studies Program, *Council for International Exchange of Scholar (CIES), US Department of States*, 2017-2018. Fulbright Research Project: *Urbanization and environmental change under institutional change, globalization, and historical/cultural influences: Comparative analysis of Taipei and Shanghai*.

Travel Grant, *Sloan Industry Studies Association*, 2009.

**Best Dissertation Award**, *MIT Department of Urban Studies and Planning*, 2004.

Dissertation Travel Grant, *MIT Rodwin International Travel Fund*, 2002.

Travel Grant, *Taiwan Academia Sinica Travel*, 2001.

Teaching Assistantship, *MIT Course 1.00*, 2000-03. Full tuition and stipend.

**Voorhees Scholarship**, *MIT*, 1997-2000. Full tuition and stipend.

Travel Award, *MIT International Science and Technology Initiative*, 1998.

**University Fellowship**, *Rutgers University*, 1995 – 97. Full tuition and stipend.

**University Graduate Student Fellowship**, *Nanjing University*, 1993-95.

Outstanding Graduate, *Nanjing University*, 1993.

**University Fellowship**, *Nanjing University*, 1989-93.

## PUBLICATIONS

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### **Edited Special Issues/Sections of Journals**

- Fan, P.**, Chen, J., & Wu, J. (2019). Special Section. Evolving Landscapes under Institutional Change, Globalization, and Cultural Influence in Contrasting Urban Systems. *Landscape and Urban Planning*, 187. IF: 6.142 (2020)
- Artmann, M., Inostroza, L., & **Fan, P.** (2019). Special Issue. *From urban sprawl to compact green cities – indicators for multi-scale and multi-dimensional analysis. Ecological Indicators*, 96, January 2019. IF 4.958 (2020).
- Li, M., Gao, X., and **Fan, P.** (2010). Special Issue, *Chinese Strategic Management: A Systems Perspective on the Practical Aspects and Theoretical Reflections. International Journal of Business System Research* 4(5/6).
- Fan, P.** (2007). Special Issue, China's Technology Catching Up. *International Journal of Technology and Globalization* 3(4).

### **Books**

- Fan, P.** (2022). *Great Urban Transformation: Landscape and Environmental Changes from Siberia, Shanghai, to Saigon*. Springer. (Forthcoming)
- Liu, Y., Yue, W., **Fan, P.** (2019). *Land Use Under Rapid Urbanization: Pattern, Effectiveness, and Policies*. Science Press, Beijing.

### **Peer Reviewed Journal Articles** (\* indicates graduate student/postdoc as the first author)

- [1]. **Fan, P.**, Cho, M.S., Lin, Z., Ouyang, Z., Qi, J., Chen, J., & Moran, E. (2022) Recently constructed hydropower dams were associated with reduced economic production, population, and greenness in nearby areas. *Proceedings of National Academy of Science (PNAS)*. <https://doi.org/10.1073/pnas.2108038119> IF 11.2 (2020).
- [2]. Yue, W., Chen, Y., Thy, P. T. M., **Fan, P.**, Liu, Y., & Zhang, W. (2021). Identifying urban vitality in metropolitan areas of developing countries from a comparative perspective: Ho Chi Minh City versus Shanghai. *Sustainable Cities and Society*, 65, 102609. <https://doi.org/10.1016/j.scs.2020.102609> IF 7.587 (2020).
- [3]. Chen, J., John, R., Yuan, J., Mack, E. A., Groisman, P., Allington, G., Wu, J.J., **Fan, P.**, de Beurs, K.M., Karnieli, A. and Gutman, G... & Qi, J. (2021). Sustainability challenges for the social-environmental systems across the Asian drylands belt. *Environmental Research Letters* 17(2), 023001 <https://doi.org/10.1088/1748-9326/ac472f> IF 6.793 (2020)
- [4]. \* Wang, Y., Chang, Q., & **Fan, P.** (2021). A framework to integrate multifunctionality analyses into green infrastructure planning. *Landscape Ecology*, 36(7), 1951-1969. <https://doi.org/10.1007/s10980-020-01058-w>. IF: 4.510 (2019-20).

- [5]. \* Hu, C. P., Hu, T. S., **Fan, P.**, & Lin, H. P. (2021). The urban blight costs in Taiwan. *Sustainability*, 13(1), 113. <https://dx.doi.org/10.3390/su13010113> IF: 3.251 (2020)
- [6]. \*Zhang, J., Yue, W., **Fan, P.**, & Gao, J. (2021). Measuring the accessibility of public green spaces in urban areas using web map services. *Applied Geography*, 126, 102381. <https://doi.org/10.1016/j.apgeog.2020.102381> IF 4.240 (2020)
- [7]. Chen, J., Park, H., **Fan, P.**, Tian, L., Ouyang, Z., & Laforteza, R. (2021). Cultural Landmarks and Urban Landscapes in Three Contrasting Societies. *Sustainability*, 13(8), 4295. <https://doi.org/10.3390/su13084295> IF: 3.251 (2020)
- [8]. Hersperger, A. M., Grădinaru, S. R., Daunt, A. B. P., Imhof, C. S., & **Fan, P.** (2021). Landscape ecological concepts in planning: review of recent developments. *Landscape Ecology*, 1-17. <https://doi.org/10.1007/s10980-021-01193-y> IF: 4.510 (2019-2020)
- [9]. Chen, J., John, R., Shao, C., Ouyang, Z., Mack, E. A., Henebry, G. M., Dong, G., Allington, G.R.H., Pearson, A., Zhao, F., Roy, D., **Fan, P.**, Shirkey, G., Tian, L., Kussainova, M., Chen, J. Reed, D., & Abraha, M. (2021). Towards a Single Integrative Metric on the Dynamics of Social-Environmental Systems. *Sustainability*, 13(20), 11246. <https://doi.org/10.3390/su132011246> IF: 3.251 (2020)
- [10]. **Fan, P.**, Yue, W., Zhang, J., Huang, H., Messina, J., Verburg, P. H., Qi, J., Moore, N., & Ge, J. (2020). The spatial restructuring and determinants of industrial landscape in a mega city under rapid urbanization. *Habitat International*, 95, 102099. <https://doi.org/10.1016/j.habitatint.2019.102099> IF 5.369 (2020).
- [11]. \* Grădinaru, S. R., **Fan, P.**, Ioja, C. I., Niță, M. R., Suditu, B., & Hersperger, A. M. (2020). Impact of national policies on patterns of built-up development: an assessment over three decades. *Land Use Policy*, 94, 104510. <https://doi.org/10.1016/j.landusepol.2020.104510> IF 5.398 (2020)
- [12]. \* Hou, C., **Fan, P.**, Du, D., Gui, Q., & Duan, D. (2020). Does international student mobility foster scientific collaboration? Evidence from a network analysis. *Compare: A Journal of Comparative and International Education*, 1-18. DOI: [10.1080/03057925.2020.1765316](https://doi.org/10.1080/03057925.2020.1765316) IF 1.817 (2020), 2.271 (5 Yr IF)
- [13]. **Fan, P.**, Lee, Y. C., Ouyang, Z., & Huang, S. L. (2019). Compact and green urban development—towards a framework to assess urban development for a high-density metropolis. *Environmental Research Letters*, 14(11), 115006. <https://doi.org/10.1088/1748-9326/ab4635> IF: 6.192 (2018)
- [14]. **Fan, P.**, Ouyang, Z., Nguyen, D. D., Nguyen, T. T. H., Park, H., & Chen, J. (2019). Urbanization, economic development, environmental and social changes in transitional economies: Vietnam after Doimoi. *Landscape and urban planning*, 187, 145-155. <https://doi.org/10.1016/j.landurbplan.2018.10.014> IF: 6.142 (2020)
- [15]. **Fan, P.**, Urs, N., & Hamlin, R. E. (2019). Rising innovative city-regions in a transitional economy: A case study of ICT industry in Cluj-Napoca,

- Romania. *Technology in Society*, 58, 101139.  
<https://doi.org/10.1016/j.techsoc.2019.05.003> IF: 4.192 (2020)
- [16]. \* Ouyang, Z., **Fan, P.**, Chen, J., Laforteza, R., Messina, J. P., Giannico, V., & John, R. (2019). A Bayesian approach to mapping the uncertainties of global urban lands. *Landscape and Urban Planning*, 187, 210-218.  
<https://doi.org/10.1016/j.landurbplan.2018.07.016> IF: 6.142 (2020),
- [17]. \* Park, H., **Fan, P.**, John, R., Ouyang, Z., & Chen, J. (2019). Spatiotemporal changes of informal settlements: Ger districts in Ulaanbaatar, Mongolia. *Landscape and Urban Planning*, 191, 103630.  
<https://doi.org/10.1016/j.landurbplan.2019.103630> IF: 6.142 (2020)
- [18]. Liu, Y., **Fan, P.**, Yue, W., Huang, J., Li, D., & Tian, Z. (2019). Assessing polycentric urban development in mountainous cities: The case of Chongqing Metropolitan Area, China. *Sustainability*, 11(10), 2790.  
<https://doi.org/10.3390/su11102790> IF: 3.251 (2020)
- [19]. Artmann, M., Inostroza, L., & **Fan, P.** (2019). Urban sprawl, compact urban development and green cities. How much do we know, how much do we agree?. *Ecological Indicator* 96, 3-9. <https://doi.org/10.1016/j.ecolind.2018.10.059> IF: 4.958 (2020)
- [20]. \*Hu, S, Du, D., & **Fan, P.** (2019). R&D internationalization of Chinese enterprises: Spatial-temporal pattern and influence factors of location selection. *Geographical Research* 38(7), 1733-48. (in Chinese).
- [21]. \*Chan, H. H., Hu, T. S., and **Fan P.** (2019). Social sustainability of urban regeneration led by industrial land redevelopment in Taiwan. *European Planning Studies*, 27(7), 1245-1269. <https://doi.org/10.1080/09654313.2019.1577803> IF: 3.269 (2017)
- [22]. \* Ouyang, Z., Lin, M., Chen, J., **Fan, P.**, Qian, S. S., & Park, H. (2019). Improving estimates of built-up area from night time light across globally distributed cities through hierarchical modeling. *Science of the Total Environment*, 647, 1266-1280. <https://doi.org/10.1016/j.scitotenv.2018.08.015> IF: 7.963(2020)
- [23]. Zhang, R., Chen, J., Park, H., Zhou, X., Yang, X., **Fan, P.**, Shao, C., & Ouyang, Z. (2019). Spatial accessibility of urban forests in the Pearl River Delta (PRD), China. *Remote Sensing*, 11(6), 667. <https://doi.org/10.3390/rs11060667>. IF 4.848 (2020).
- [24]. **Fan, P.**, Chen, J., Ouyang, Z., Groisman, P., Loboda, T., Gutman, G., Prishchepov, A.V., Kvashnina, A., Messina, J., Moore, N., Myint, S.W., & Qi., J. 2018. Urbanization and sustainability under transitional economies: a synthesis for Asian Russia. *Environmental Research Letters*, 13(9), p.095007.  
<https://doi.org/10.1088/1748-9326/aadb8> IF: 6.793(2020)
- [25]. **Fan, P.**, Wan, G., Xu, L., Park, H., Xie, Y., Liu, Y., Yue, W., & Chen, J. (2018). Walkability in urban landscapes: A comparative study of four large cities in China. *Landscape ecology*, 33(2), 323-340. <https://doi.org/10.1007/s10980-017-0602-z> IF: 4.510 (2019-2020)



- [26]. Liu, Y., **Fan, P.**, Yue, W., Song, Y. (2018). Impacts of land finance on urban sprawl in China: The case of Chongqing. *Land Use Policy*, 72, 420-432. <https://doi.org/10.1016/j.landusepol.2018.01.004>. IF: 5.398 (2020)
- [27]. Wu, Y., **Fan, P.**, You, H. (2018). Spatial evolution of producer service sectors and its influencing factors in cities: a case study of Hangzhou, China. *Sustainability*. *Sustainability*, 10 (4), 975. <https://doi.org/10.3390/su10040975> IF: 3.251 (2020)
- [28]. \* Wang, C., Myint, S. W., **Fan, P.**, Stuhlmacher, M., & Yang, J. (2018). The impact of urban expansion on the regional environment in Myanmar: A case study of two capital cities. *Landscape ecology*, 33(5), 765-782. <https://doi.org/10.1007/s10980-018-0632-1> IF: 4.510 (2019-2020)
- [29]. Chen, J., John, R., Sun, G., **Fan, P.**, Henebry, G. M., Fernández-Giménez, M. E., ... & Qi, J. (2018). Prospects for the sustainability of social-ecological systems (SES) on the Mongolian plateau: five critical issues. *Environmental Research Letters*, 13(12), 123004. <https://doi.org/10.1088/1748-9326/aaf27b> IF: 6.793(2020)
- [30]. \* Zhang, L., Yue, W., Liu, Y., **Fan, P.**, & Wei, Y. D. (2018). Suburban industrial land development in transitional China: Spatial restructuring and determinants. *Cities*, 78, 96-107. <https://doi.org/10.1016/j.cities.2018.02.001> IF: 3.85(2020)
- [31]. Lu, D., Li, L., Li, G., **Fan, P.**, Ouyang, Z., & Moran, E. (2018). Examining spatial patterns of urban distribution and impacts of physical conditions on urbanization in coastal and inland metropolises. *Remote Sensing*, 10(7), 1101. <https://doi.org/10.3390/rs10071101> IF: 4.848 (2020)
- [32]. Groisman, P., Bulygina, O., Henebry, G., Speranskaya, N., Shiklomanov, A., Chen, Y., Tchebakova, N. M., Parfenova, E. Tilinina, N., Zolina, O., Dufour, A., Chen, J., John, R., **Fan, P.**, Matyas, C., Yesserkepova, I., & Kaipov, I. (2018). Dryland belt of Northern Eurasia: contemporary environmental changes and their consequences. *Environmental Research Letters*, 13(11), 115008. <https://doi.org/10.1088/1748-9326/aae43c> IF: 6.793(2020)
- [33]. **Fan, P.**, Xu, L., Yue, W., Chen, J. (2017). Access of public green space in an urban periphery: the case of Shanghai. *Landscape and Urban Planning* 165, 177-192. <http://dx.doi.org/10.1016/j.landurbplan.2016.11.007> IF: 6.142 (2020)
- [34]. **Fan, P.**, Ouyang, Z., Basnou, C., Pino, J., Park, H., & Chen, J. (2017). Nature-based solutions for urban landscapes under post-industrialization and globalization: Barcelona versus Shanghai. *Environmental research*, 156, 272-283. <https://doi.org/10.1016/j.envres.2017.03.043> IF: 6.498 (2020)
- [35]. **Fan, P.**, Chen, J., Ouyang, Z. (2017). Urbanization in Siberia: A Satellite View. *All Russia Economic Journal* 2017(7), 20-33 (In Russian). **Фан П.**, Чен Дж., Уанг З (2017). Урбанизация в Сибири. *Взгляд со спутника// ЭКО*. - 2017. - № 7. - С. 20-33. <http://dx.doi.org/10.30680/ECO0131-7652-2017-7-20-33>
- [36]. \* Park, H., **Fan, P.**, John, R., & Chen, J. (2017). Urbanization on the Mongolian Plateau after economic reform: Changes and causes. *Applied Geography*, 86, 118-127. IF 4.240 (2020)

- [37]. \* Li, X., Messina, J. P., Moore, N. J., **Fan, P.**, & Shortridge, A. M. (2017). MODIS land cover uncertainty in regional climate simulations. *Climate Dynamics*, 49(11), 4047-4059.. doi:10.1007/s00382-017-3563-7. IF: 4.375(2020)
- [38]. Liu, Y., Yue, W., **Fan, P.**, Zhang, Z., & Huang, J. (2017). Assessing the urban environmental quality of mountainous cities: A case study in Chongqing, China. *Ecological Indicators*, 81, 132-145. IF: 4.958 (2020)
- [39]. Wu, Y., **Fan, P.**, Li, B., Ouyang, Z., Liu, Y., & You, H. (2017). The effectiveness of planning control on urban growth: Evidence from Hangzhou, China. *Sustainability*, 9(5), 855. IF: 3.251 (2020)
- [40]. \* Wu, S. R., Kim, S. K., Park, H., **Fan, P.**, Ligmann-Zielinska, A., & Chen, J. (2017). How do green buildings communicate green design to building users? A survey study of a Leed-certified building. *Journal of Green Building*, 12(3), 85-100.
- [41]. Messina, J., Suepa, T., Snapp, S., Olson, J., Nejadhashemi, A. P., Murray, S., Moore, N., Frake, A.N., **Fan, P.**, & Adhikari, U. (2017). Food system resilience and sustainability in Cambodia. *International Journal of Applied Geospatial Research (IJAGR)*, 8(3), 53-75.
- [42]. **Fan, P.**, Chen, J., & John, R. (2016). Urbanization and environmental change during the economic transition on the Mongolian Plateau: Hohhot and Ulaanbaatar. *Environmental research*, 144, 96-112.  
<http://dx.doi.org/10.1016/j.envres.2015.09.020> IF: 6.498 (2020)
- [43]. \* Ouyang, Z., **Fan, P.**, & Chen, J. (2016). Urban built-up areas in transitional economies of Southeast Asia: Spatial extent and dynamics. *Remote Sensing*, 8(10), 819. doi:10.3390/rs8100819 IF: 4.848 (2020)
- [44]. \* Wu, S. R., **Fan, P.**, & Chen, J. (2016). Incorporating culture into sustainable development: A cultural sustainability index framework for green buildings. *Sustainable Development*, 24(1), 64-76.. DOI: 10.1002/sd.1608. IF: 6.159 (2020)
- [45]. Liu, Y., Yue, W., **Fan, P.**, Peng, Y., & Zhang, Z. (2016). Financing China's suburbanization: capital accumulation through suburban land development in Hangzhou. *International Journal of Urban and Regional Research*, 40(6), 1112-1133. IF: 4.364 (2020)
- [46]. \* Hu, S., Li, H., **Fan, P.**, & Xiao, G. (2016). Spatial spillover effects of innovative outputs of university and its impacts on regional economic growth of China: Based on spatial econometrics analysis of provincial data. *Sci. Geogr. Sin.*, 36, 1767-1776. (in Chinese) doi: 10.13249/j.cnki.sgs.2016.12.001
- [47]. Chen, J., Zhu, L., **Fan, P.**, Tian, L., & Laforteza, R. (2016). Do green spaces affect the spatiotemporal changes of PM 2.5 in Nanjing?. *Ecological processes*, 5(1), 1-13.. DOI 10.1186/s13717-016-0052-6. IF: 2.849 (2020)
- [48]. \* Chen, C., Han, J., & **Fan, P.** (2016). Measuring the level of industrial green development and exploring its influencing factors: empirical evidence from China's 30 provinces. *Sustainability*, 8(2), 153. IF: 3.251 (2020)

- [49]. Xie, Y., Wang, G., Wang, X., & **Fan, P.** (2017). Assessing the evolution of oases in arid regions by reconstructing their historic spatio-temporal distribution: a case study of the Heihe River Basin, China. *Frontiers of earth science*, 11(4), 629-642. doi:10.1007/s11707-016-0607-y IF: 3.23 (2020)
- [50]. **Fan, P.** (2015). Producing and consuming urban planning exhibition halls in Contemporary China. *Urban Studies*, 52(15): 2890-2905. DOI: 10.1177/0042098014536627 IF: 4.663(2020), 5.511 (5yr)
- [51]. Liu, Y., Yue, W., **Fan, P.**, & Song, Y. (2015). Suburban residential development in the era of market-oriented land reform: The case of Hangzhou, China. *Land use policy*, 42, 233-243. IF: 5.398 (2020)
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### **Peer-reviewed Book Chapters**

- [1]. **Fan, P.** (forthcoming) “Environmental Impact in Post Reform China,” In Weiping Wu and Qin Gao (eds). *China Urbanizing: Impacts and Transitions*. University of Pennsylvania Press, 2021. (Chapter 8)
- [2]. **Fan, P.** Ouyang, Z., Chen, J., Messina, J., Moore, N., & Qi, J. (2020). “Population and Urban Dynamics in Drylands of China,” In Gutman, G., Chen, J., Henebry, G.M., & Kappas, M. (eds). *Landscape dynamics of drylands across Greater Central Asia: People, societies and ecosystems*. Springer Nature, 2020. (Chapter 7)
- [3]. **Fan, P.** (2018). Innovation and learning of latecomers: A case study of Chinese Telecom-equipment companies. In Nathan, D., Tewari, M., Sarkar, S. (eds) *Development with Global Value Chains: Upgrading and Innovation in Asia*. Cambridge: Cambridge University, pp. 157-176 (Chapter 7).
- [4]. Sun, Y. & **Fan, P.** (2017). Technology Spillover. In Richardson, D., Castree, N., Goodchild, M.F., Kobayashi, A., Liu, W., Marston, R. (eds). *The International Encyclopedia of Geography*. Wiley and the American Association of Geographers (AAG). DOI: 10.1002/9781118786352.wbieg0654
- [5]. **Fan, P.** & Gao, X. (2016). Catching up and developing innovation capabilities in China's telecommunication equipment Industry. In Zhou, Y., Lazonick, W., Sun, Y. (eds) *China as an Innovation Nation*. Chapter 8, pp. 215-239 Oxford: Oxford University.
- [6]. **Fan, P.** (2015). The role of returnees in developing entrepreneurial ventures in high-tech sectors in China. In McKelvey M. & Bagchi-Sen S. (eds) *Navigating Innovation Spaces in Asia*. Chapter 9, pp. 167-188. North Hampton, MA: Edward Elgar.
- [7]. Yue, W., **Fan, P.**, Qi, J. (2014). Spatio-temporal evolution of urban structure in Shanghai. In Braimah, A.K. & Huang H.Q.(eds) *Vulnerability of Land Systems in Asia*. Hoboken, NJ: John Wiley & Sons, Ltd., pp. 215-234.

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- [10]. Qi, J., **Fan, P.**, and Chen, X. (2012). The urban expansion and sustainability challenge of cities in China's west: the case of Urumqi. In Vojnovic, I.(ed) *Urban Sustainability: A Global Perspective*. East Lansing, MI: Michigan State University Press, pp. 69-100.
- [11]. **Fan, P.** and Wan, G. (2009). Innovation capability for economic development: the Chinese experience in the reform era. In Sweetman, A.and Zhang, J(eds) *Economic Transition with Chinese Characteristics: Thirty years of Reform and Opening Up*. Montreal: McGill Queen's University Press, Volume 1, pp. 99-122. (Book website: <http://mqup.mcgill.ca/book.php?bookid=2357>)
- [12]. **Fan, P.** and Wan, G. (2008). China's regional inequality in innovation capability, 1995-2004. In Guanghua Wan (ed) *Inequality and Growth in Modern China*. Oxford: Oxford University Press, pp. 144-162. ISBN13: 9780199535194; ISBN10: 0199535191
- [13]. **Fan, P.** (2005). Japan's biotech clusters: growth engine for cities and regions? In Murayama Y. & Du, G. (eds) *Cities in Global Perspective: Diversity and Transition*, pp. 113-121. Tokyo, Japan: International Geographic Union, Urban Commission.

### **Book Reviews**

- Fan, P.** (2009). Book Review for *The Inside Story of China's High-Tech Industry: Making Silicon Valley in Beijing* by Zhou, Y. 2007. Lanham, MD: Rowman & Littlefield. *Economic Geography* 85(3): 342-344. (ISSN: 0013-0095)
- Fan, P.** (2008). Book Review for *Interfirm Relations under Late Industrialization in China: The Supplier System in the Motorcycle Industry* by Ohara, M. 2006. Chiba, Japan: Institute of Developing Economics, Japan External Trade Organization. *China Review* 8(1): 159-161. (ISSN: 1680-2012)

**Other Publications** (Research papers and policy reports for international agencies and universities, dissertation, thesis)

- Fan, P.** (2018). Catching up in economic transition: Innovation in China and India. ADBI Working Paper 809. Tokyo: Asian Development Bank Institute. Available at <https://www.adb.org/publications/catching-economic-transition-innovation-prc-and-india>
- Fan, P.,** Wan, G., Xu, L., Park, H., Xie, Y., Liu, Y., Yue, W., Chen, J. (2017). *Evolving Walkability of Major Cities in the People's Republic of China*. ADBI Working Paper 645. Tokyo: Asian Development Bank Institute. Available: <https://www.adb.org/publications/evolving-walkability-major-cities-prc>
- Fan, P.** (2015). Urbanization and Global Environmental Change (UGEC) Blog View Point. [Critical perspectives for examining urbanization and sustainability in China](#) (posted on Oct. 27, 2015)
- Peilei F.,** Wan, G., Xu, L., Park, H., Xie, Y., Liu, Y., & Yue, W. (2015). Urbanization and sustainability: urban expansion and walkability of Chinese cities. Report for the Asian Development Bank (ADB) Project “The Urbanization-Poverty-Inequality Triangle in Asia and the Pacific”. Manila: ADB.
- Fan, P.** (2015). Conference Paper: Catching up in economic transition: Innovation in China and India. The Asian Development Bank Institute (ADBI) - NSFC conference on "Escaping the Middle-income Trap". Tokyo: ADBi.
- Fan, P.,** Yue, W., Messina, J.P., Huang, H., Li, X., Verburg, P., & Qi, J. (2012). Urban expansion in Asia: evaluation, spatial determinants, and future scenarios. Report for the Asian Development Bank (ADB) Project “Urbanization in Asia”. Manila: ADB.
- Santos-Paulino, A., Squicciarini, M. and **Fan, P.** (2008). R&D (re)location: a bird's eye (re)view. *UNU-WIDER Research Paper No. 2008/100*. Helsinki: United Nations University-World Institute for Development Economics Research.
- Fan, P.** (2008). China and India: innovation capability and economic development. *UNU-WIDER Research Paper No 2008/31*. Helsinki: United Nations University-World Institute for Development Economics Research.
- Fan, P &** Wan, G. (2006). China's regional inequality in innovation capability, 1995-2004. *UNU-WIDER Research Paper No. 2006/153*. Helsinki: United Nations University-World Institute for Development Economics Research.
- Fan, P.,** Johnston, S., Mutekanga, D., & Tobin, B. (2005). Technology transfer under mutilatory agreement: Wishful thinking? *UNU Working In Progress 17(2)*. Tokyo: United Nations University.
- Ainuddin, N., de Carvalho, M. G., **Fan, P.,** Kelar, G., Munder, I., and Taeb, M. (2005). *Revisiting Women's Participation in Science and Technology: Emerging*

*Challenges and Agenda for Reform.* UNU-IAS Policy Report. Yokohama, Japan: United Nations University-Institute of Advanced Studies.

- Fan, P.** (2004). Comparative analysis of Japan and China's technology policies and industrial development: Lessons for developing countries. *UNU-IAS Working Paper No. 125*. Yokohama, Japan: United Nations University-Institute of Advanced Studies. (One of the five mostly popular papers at the Development Gateway website in September 2004)
- Fan, P.**, Watanabe, C., Rong, L., and Li, Y. (2004). Elucidation of the co-evolutionary dynamism of Japan's system of management of technology -Comparative empirical analysis of the institutional systems between Japan, the US, and China. *Conference Proceeding of the Japan Society for Science Policy and Research Management*. Tokyo: the Japan Society for Science Policy and Research Management.
- Fan, P.** (2003). *Made in China, the rise of the domestic firms in China's ICT industry.* MIT Dissertation in the field of Economic Development. Cambridge, MA: Massachusetts Institute of Technology. (Best Dissertation Award from MIT Department of Urban Studies and Planning, 2004)
- Fan, P.** (2001). *A Design and Implementation of a General-purpose Translator for IPv6/IPv4 (GT64)*. MIT Master Thesis in the field of Electrical Engineering and Computer Science. Cambridge, MA: Massachusetts Institute of Technology.
- Fan, P.** and Zhai, Y. (1997). *Defense Conversion in China*. Global Defense Conversion Project, Project on Regional and Industrial Economics (PRIE). New Brunswick, NJ: Rutgers University.
- Team Project Report. 1996. *Planning for Successful Transition: An Evaluation of the Closure of Lockheed Martin Astro Space*. New Brunswick, NJ: Defense Conversion Project, Rutgers University.

## OTHER RESEARCH AND WORK EXPERIENCES

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<b>United Nations University Institute of Advanced Studies</b>	<b>2003-2006</b>
<u>Postdoctoral Fellow.</u>	
2004-2006 (JSPS-UNU): conducted research on biotechnology and ICT industries and urban and regional development in Asia	
2003-2004 (UNU-IAS): conducted research on science and technology policies in Japan and China; also participated projects on technology transfer to Africa, women in science, and global educational development using ICT.	
<b>MIT Dept. of Urban Studies and Planning</b>	<b>1997- 2003</b>
<u>Ph.D. Candidate,</u>	



Conducted dissertation research “Made in China: The Rise of Chinese Domestic Firms in the Information Industry.”

**MIT Laboratory of Computer Science** **2000 – 2001**

Research Assistant, Parallel and Distributed Operating System Group.  
worked on master’s thesis project for IPv6 implementation in Click Modular Router. Designed and developed a general-purpose network address translator for different address/protocol translation scenarios.

**EMC Corporation and World Street Corporation (Boston)** **Summer, 99-00**

Software Developer, Worked on various software development projects using C++, Java, etc.

**MIT International Science and Technology Initiative (MISTI)** **1997- 1998**

Principal Investigator, Foreign Investment in China’s Telecommunication Industries - a Case Study of Motorola.

**Vertices GIS Consulting Ltd. (Highland Park, NJ)** **Summer 1998, 1996-1997**

GIS/IT Consultant, worked on various GIS projects using Java, Visual Basic, and Map Object, designed web pages, managed large geographical and clinical databases, and conducted training for employees and clients to improve their GIS skills.

**Rutgers University, Project on Regional and International Economics** **1996-1997**

Research Assistant, worked on Rutgers Defense Conversion Project, led by Professor Ann Markusen.

**Rutgers University, Center for Urban Policy Research** **1996-1997**

Research Assistant, worked on GIS projects (using Avenue for Arc view customizing, Arc/Info, Mapping), large database management (using FoxPro, Access, Excel, paradox, etc.), and webpage design etc.

**Nanjing University, Institute of Urban Planning** **1993-1995**

Research Assistant, worked on various urban & regional development projects in Jiangsu and Zhejiang Province, China

**Jiangsu Province Economic Planning Commission** **1994**

Research Assistant, worked on infrastructure evaluation and planning of Jiangsu Province, China.

## **ORGANIZED WORKSHOPS/MEETINGS**

**International Union of Forest Research Organization (IUFRO) Landscape Ecology Conference 2017** The Green-Blue Nexus: Forests, Landscapes and Services  
(Martin Luther Universitat, Halle-Wittenberg, Germany & International

Association of Landscape Ecology). **Scientific Board Member**  
<http://iufrole2017.eli-web.com/> (September 24-29, 2017)

**Ulaanbaatar Workshop** on *Urbanization and Sustainability Under Global Change and Transitional Economies in Southeast, East, and North Asia (SENA)*, Ulaanbaatar, Mongolia, June 2-5, 2017. Funded by NASA LCLUC (Grant #: NNX15AD51G). Co-hosted by Institute of Geography-Geo-ecology, Mongolia Academy of Science (IGG, MAS), Saruul Khuduu Environmental Research & Consulting (SKERC) and Center for Global Change and Earth Observations (CGCEO), Michigan State University (MSU). **Lead PI and organizer.** This is a joint workshop with NSF funded project *Coupled Human Nature System in Mongolian Plateau (CHN)* (Lead PI, Jiquan Chen)

Symposium #6 “Evolving Landscapes under Institutional Change, Globalization, and Cultural Influence in Contrasting Urban Systems” at **US-International Association of Landscape Ecology (US-IALE)** Annual Conference (Baltimore). (April, 2017). **Organizer.** (Symposium Organizers: Peilei Fan, Jiquan Chen, Jingle Wu)

**HCMC Workshop** on *Urbanization and Sustainability Under Global Change and Transitional Economies in Southeast, East, and North Asia (SENA)*, Ho Chi Minh City, Vietnam, November 4-6, 2015. Funded by NASA LCLUC (Grant #: NNX15AD51G). Co-hosted by Ho Chi Minh City Institute of Resources Geography, Vietnam Academy of Science and Technology (HCMIRG of VAST) and Center for Global Change and Earth Observations (CGCEO), Michigan State University (MSU). **Lead organizer**, with 52 participants from 6 countries.

**Yangon Workshop** on *Urbanization and Sustainability Under Global Change and Transitional Economies in Southeast, East, and North Asia (SENA)*, Yangon, Myanmar, June 20, 2015. Funded by NASA LCLUC (Grant #: NNX15AD51G). Co-hosted by Mandalay Technology and Center for Global Change and Earth Observations (CGCEO), Michigan State University (MSU). **Lead organizer**, with 20 participants, 17 from Myanmar.

**Northern Eurasia Earth Science Partnership Initiative (NEESPI) Workshop** (Prague, Czech Republic) Celebrating ten years of Northern Eurasia Earth Science Partnership Initiative Research: Synthesis and Future Plans. Member of Program Committee. Local host: Charles University. (April 9-12, 2015)

**Conference on Urbanization and sustainability in the Era of Big Data** (Hangzhou, Zhejiang). 2014. Conference co-organizer. Local host: Zhejiang University Social Science Experiment Center (November 4, 2014)

## **KEYNOTES, INVITED TALKS, LECTURES, EXPERT PANELS**

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**National and International:**

**Swiss Federal Research Institute (WSL)**, From Plans to Land Change: Dynamics of Urban Regions (Online Conference). Keynote Speech: “From Planning to Land Use Changes: Perspective from Transitional Economies in Asia” (April 20, 2021)

**Earth Observation for Sustainability and Communities (EARSel) and NASA LCLUC Joint Workshop** (Virtual), Session “Remote Sensing and Urban Social Science Application”. Keynote Speech “Urbanization and sustainability under global change and transitional economies: Synthesis from Southeast, East, and North Asia (SENA)” (March 30, 2021)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program (Online Webinar). Invited presentation: “Divergent Local Responses to Globalization: Urbanization, Land Transition, and Environmental Changes in Southeast Asia (SEAGUL)” (September 4, 2020)

**University of Michigan**, 2020 Lecture Series of the Lieberthal-Rogel Center for Chinese Studies (Ann Arbor, MI). Invited Talk “Urban Environmental Change in Post-Reform China” (Feb. 11, 2020).

**Columbia University**, 2019 Urban China Forum: Urbanization and China: Understanding Impacts, Projecting Future (New York). Invited Talk “Air Pollution, Heat island, and Green Space: Environment Impact of Urbanization in Post-Reform China” (October 5, 2019).

**National Aeronautics and Space Administration (NASA)**, International Land Cover and Land Use Change (LCLUC) Program Regional Science Joint Meeting for central Asia and Caucasus: water-energy-food security and sustainability (Nur Sultan, Kazakhstan). Participants are by invitation only. Presentation: “Remote Sensing and Urban and Regional Planning: Urban Case Studies” (September 16, 2019)

**Chongqing University** (Chongqing, China), Invited Public Lecture “Urbanization and sustainability under global change and transitional economies: A synthesis in Southeast, East, and North Asia (SENA)” (August 11, 2019).

**University of Hannover** (Hannover, Germany), Invited Public Lecture “Urbanization and sustainability under global change and transitional economies: A synthesis in Southeast, East, and North Asia (SENA)” (June 27, 2019).

**Charles University** (Prague, Czech Republic), Invited Public Lecture “Urbanization and sustainability under global change and transitional economies: A synthesis in Southeast, East, and North Asia (SENA)” (June 21, 2019).

**World Geography and Geopolitics Advanced Workshop for Young Scholars** at East China Normal University (Shanghai, China), Invited as a faculty member to deliver the lecture to over 200 scholars on “Urbanization and sustainability in Southeast, East, and North Asia” (August 4-11, 2018)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Regional Science Team Meeting (International Meeting on Land Use and Emissions in South/Southeast Asia) (Manila, Philippines).

- Participants are by invitation only. Presentation: “Urbanization and sustainability in transitional economies of Southeast Asia” (May 28-31, 2018)
- Second International Forum on Mountain Landscape** (Guizhou Normal University, Guiyang, China). 2018. Invited Keynote Speaker “Nature-based Solutions and accessibility of public urban green space.” (June 22-23, 2018)
- International Forum on Urbanization and Global Environmental Changes in Asia** (National Taipei University, Taiwan). 2018. Keynote Speech “Urbanization and environmental change in Transitional Asia” (June 11, 2018)
- Fulbright Taiwan Annual Conference** (Taipei, Taiwan). 2018. Invited Presentation “Urbanization and environmental change under institutional change, globalization, and cultural/historical factors: A comparative analysis of Taipei and Shanghai.” (May 4, 2018).
- National Taipei University** (New Taipei, Taiwan), Graduate Institute of Urban Planning. 2018. Invited Guest Lecture “Urban green landscape: Nature-based solutions and accessibility assessment” (April 30, 2018).
- National Chung Hsing University** (Taichung, Taiwan). 2018. Invited Guest Lecture “Urban green landscape: Nature-based solutions and accessibility” (April 18, 2018).
- National Taipei University** (New Taipei, Taiwan), Department of Economics. 2018. Invited Guest Lecture “Technological Leapfrogging and Catching-up” (March 26, 2018).
- National Cheng Kung University** (Tainan, Taiwan), Department of Urban Planning. 2018. Invited Guest Lecture “Nature-based solutions for urban landscapes and accessibility of public urban green space.” (March 23, 2018).
- Fulbright Taiwan Mid-Year Conference** (New Taipei, Taiwan). 2018. Invited Presentation “Urbanization and environmental change under institutional change, globalization, and cultural/historical factors: A comparative analysis of Taipei and Shanghai.” (January 26, 2018).
- Harvard University**, J.F. Kennedy School of Government (Cambridge, MA). 2017. Invited as a faculty member to deliver the lecture “Technology Leapfrogging and Catch-up” for the Second Meeting of the African High-Level Panel on Emerging Technologies (October 15, 2017)
- National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Regional Science Team Meeting (International Meeting on Land Use and Emissions in South/Southeast Asia) (Chiang Mai, Thailand). Participants are by invitation only. Presentation: “Urban transformation and environmental change of transitional economies: Vietnam after Doimoi” (July 17-19, 2017)
- Duke Kunshan University & National Development Research Council, People’s Republic of China** (Kunshan, China). Invited Talk: “China’s innovation in the global context” (June 29, 2017)

**East China Normal University**, Institute of China Innovation (Shanghai, China) Invited seminar: “Catching up and developing innovation capability in China’s telecommunication equipment industry” (June 8, 2017)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Science Team Meeting (Washington, D.C.). Invited presentation: “Urbanization and sustainability under global change and transitional economies: Synthesis from Southeast, East, and North Asia (SENA)” (April 12, 2017)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Regional Science Team Meeting (International Meeting on Land Use and Emissions in South/Southeast Asia) (Ho Chi Minh City). Participants are by invitation only. Presentation: “Urban Transformation And Environmental Changes Of Transitional Economies: Hanoi After Doimoi (1986-2015)” (October 19, 2016)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Workshop (University of Michigan, Ann Arbor): Research synthesis & innovation on the Mongolian Plateau 2016. “Urbanization and sustainability in Southeast, East, and North Asia” Presenter (May 12, 2016)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Regional Science Team Meeting (Yangon, Myanmar). Participants are by invitation only. Poster: “An overview of urbanization and sustainability in Southeast, East, and North Asia (SENA)” (January 13-16, 2016)

**HCMC Workshop** on *Urbanization and Sustainability Under Global Change and Transitional Economies in Southeast, East, and North Asia (SENA)*, Ho Chi Minh City, Vietnam, November 4-6, 2015. Keynote Presentation: *Urbanization and Sustainability in Economies in Southeast, East, and North Asia (SENA)*. (Nov. 4, 2015).

**Asian Development Bank Institute (ADBi)** Conference 1: Escaping the Middle Income Trap: Urbanization, Structural Change, and Sustainable Development in Asia & Conference 2: Implication for a Possible PRC Growth Slowdown for Asia. (Tokyo, Japan). Invited to give a presentation on “Catching up in economic transition: Innovation in China and India” at Conference 1 and as the discussant for Conference 2 (November 25-28)

**Capital Normal University, China.** Invited presentation and scholarly exchange “Innovation in Emerging Asian Economies: A comparative study of China and India” (Beijing). (July 24-25, 2015)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Science Team Meeting (Washington, D.C.). Invited contribution to Karen Seto’s Keynote Speech “Rethinking Human Impacts on the Carbon Cycle and Ecosystems in the Urban Era” & poster presentation: “Urban landscape and environment change during the economic transition in Mongolian

- Plateau: A comparative study of Hohhot and Ulaanbaatar, 1990-2010” (April 22-24, 2015)
- Stiftung Deutsch-Amerikanische Wissenschaftsbeziehungen (SDAW/Foundation German-American Academic Relations)** Workshop: A global shift in innovation? Examining China’s role in global innovation networks (Justus Liebig Universität, Giessen, Germany). Invited to give presentation and discussion on “China and Global Innovation Networks” and as the collaborator for the proposed project. (December 7-11, 2014)
- National Science Foundation (NSF) and National Aeronautics and Space Administration (NASA).** Workshop LCLUC Synthesis: Ecosystem-Society Interactions on a Changing Mongolian Plateau (Ulaanbaator, Mongolia). Invited presentation: “Urban Dynamics: Urban expansion and environment change in Dryland East Asia” (June 18-21, 2014)
- BIT’s Global Innovation Economic Congress – 2014. Dalian, China.** Co-chair for Forum 101: Strategies for Asian Innovation Systems & Economic Innovation. Invited presentation: “Innovation in Emerging Asian Economies: A Comparative Study of China and India” (June 27-29, 2014)
- Zhejiang Forest and Agricultural University.** Workshop on spatial analysis and remote sensing. Invited presentation: “Urbanization in China” (June 16, 2014)
- National Aeronautics and Space Administration (NASA),** Land Cover and Land Use Change Program, Science Team Meeting (Washington, D.C.). Invited presentation: “An overview of China’s urbanization” (April 23-25, 2014)
- Vassar College.** Workshop on China’s innovation (Poughkeepsie, NY). Invited presentation: “Innovation in China’s Telecom-equipment sector” (April 5-6, 2014)
- Arizona State University.** The Role of Science & Technology in China’s International Relations. (Tempe, AZ). Invited presentation: “China and Global Supercomputer Race” (April 2-4, 2014)
- RAND Corporation** Workshop of “China Mobility Scenarios: Demographic Projections.” (Washington D.C.) Invited as one of the eight external experts for the workshop (December 5, 2013)
- Universitatea Babes Bolyai, Romania, Municipality of Cluj-Napoca, Michigan State University.** Transatlantic Conference on Urban and Regional Development: Strategic planning of Cluj-Napoca. Invite presentation “Rising innovative city-regions in a transitional economy: A case study of technological upgrading of ICT industry in Cluj-Napoca, Romania” (Mackinac Island, Michigan) (September 18, 2013)
- Nanjing University of Information Science and Technology.** International Symposium Global Change Research 2013: Coupled Natural & Human Systems (Nanjing, China). Invited as a member of scientific committee and poster presentation “Assessing coupled natural and human systems in a changing environment from a historic perspective: the case of Lanzhou” (June 18-20, 2013).

**University of Toledo**, Department of Environmental Sciences (Toledo, OH). Invited seminar “China’s urbanization and sustainability under climate Change” (February 22, 2013)

**Ford Foundation** Conference on Finance, Business Models, and Sustainable Prosperity (New York City). Invited as a discussant for the section “China: innovation, competition, and performance” (December 6 & 7, 2012)

**Manchester University, Duke University, United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP), and Institute for Human Development, New Delhi**, Workshop of “Value Chains, Poverty Reduction and Development: Lessons and Policies for South Asia” (Dhaka, Bangladesh). Invited presentation: “Learning and innovation of latecomers: case from China’s telecommunication” (November 24-25, 2012)

**Sichuan University**, Global Change Workshop (Chendu, Sichuan) (1) Invited presentation “China’s urbanization and sustainability under climate Change;” (2) Public Lecture at College of Public Administration “Assessing Urban Sustainability for major cities in China” (October 24-25, 2012)

**Lanzhou University, Guilin University of Technology, Yunnan Finance University, China** (Lanzhou, Guilin, Kunming). Invited public lecture “Urban sustainability indicators and assessing sustainability of major cities in China” (July 26, June 15 & 11, 2012).

**Southwest University** (Chongqing, China). Invited public lecture “China’s urbanization and sustainability under climate Change” (June 19, 2012)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Science Team Meeting (Washington, D.C.). Invited presentation: “China’s urbanization and sustainability under climate Change” (April 3, 2012)

**National Aeronautics and Space Administration (NASA)**, Land Cover and Land Use Change Program, Workshop on Land Cover Land Use Change (Hanoi, Vietnam). 2011. Invited presentation: “China’s urbanization and sustainability under climate Change” (November 8, 2011)

**East China Normal University**, Institute of China Innovation (Shanghai, China) Invited seminar: “Innovation, globalization, and catch-up of latecomers: cases of Chinese telecom firms” (October 31, 2011)

**Chinese Academy of Sciences**, Xinjiang Institute of Ecology and Geography (Urumqi, China). 2011. Invited seminar. “China’s urbanization and sustainability under climate Change” (October 25, 2011)

**National Science Foundation (NSF)**, Workshop on Chinese Ways of Innovation: Strategic Directions of Research on Chinese Innovation (Los Angeles). 2011. Invited Presentation: “Superfast: Indigenous innovation and China’s catching up in supercomputing industry.” (October 7, 2011)

- Southwest University**, College of Resources and Environment (Chongqing, China). 2010. Public Lecture: “Urban Planning and Land Management in the US.” (June 7, 2010)
- United Nations University**-World Institute for Development Economics Research (UNU-WIDER) Project Meeting on Southern Engines of Global Growth, China, India, Brazil, and South Africa (CIBS): Financial Flows and Capital Markets (Rio de Janeiro, Brazil). 2008. Invited presentation: “R&D (re)location: a bird’s eye (re)view.” (co-authors: Amelia Santos Paulino and Mariagrazia Squicciarini) (July 11, 2008)
- Harvard University**, J.F. Kennedy School of Government (Cambridge, MA). 2008. Invited as a faculty member for the Executive Education program: Lecture: 1. “Leadership and Innovation: Lessons from China and India” (April 16, 2008)
- Harvard University**, J.F. Kennedy School of Government (Cambridge, MA). 2008. Invited as a faculty member for the Executive Education program: Lecture: 2. “Leadership and Innovation: Case Studies.” (April 16, 2008)
- United Nations University**-World Institute for Development Economics Research (UNU-WIDER) Conference on Southern Engines of Global Growth (Helsinki, Finland). 2007. Invited presentation: “China and India: Innovation capability and economic development.” (September 7, 2007)
- United Nations University**-Institute of Advanced Studies (UNU-IAS) (Yokohama, Japan). 2007. Seminar: “Asia’s next biotech giants: development of China and India’s biotech industries.” (July 12, 2007)
- Tsukuba University**, Graduate School of Life and Environmental Science (Tsukuba, Japan). 2006. Guest Lecture: “Developing innovation capability, the Asian experience in biotech and ICT industries.” (October 30, 2006)
- Harvard University**, J.F. Kennedy School of Government (Cambridge, MA). 2006. Guest Lecture: “Riding with biotechnology: the perspective from Asia.” (March 13, 2006)
- National University of Singapore**, Department of Geography (Singapore). 2006. Guest Lecture: “China’s high-tech parks.” (January 20, 2006)
- Kanagawa College of Foreign Studies** (Yokohama, Japan). 2005. Public Lecture: “China’s high-tech industries.” (November 15, 2005)
- Meiji Gakuyin University** (Tokyo, Japan). 2005. Public Lecture: “China’s ICT and biotech industries”. (November 24, 2005)
- Meiji Gakuyin University** (Tokyo, Japan). 2005. Public Lecture: “Recent economic development in Shanghai Metropolitan Area”. (November 17, 2005)
- The Japan Society for Science Policy & Research Management**, International Committee (Tokyo, Japan), 2003. Guest Lecture. “Development of Information and Telecommunication Industry in China” (November, 2003)

## Local



- Michigan State University Extension, SPDC, National Charrette Institute. Webinar “Defining and building resilient regional economies.” Presentation “Resilient Local Economic Development under Climate Change and Pandemic”. (March 24, 2021).
- Innovative Michigan! Summit (East Lansing, MI). Presentation “Integration of Online Market Place and Main Street in Michigan Communities: Drivers, impacts, and policy implications”. (August. 29, 2019).
- Michigan State University, Environmental Science and Policy Program (ESPP) (East Lansing, MI). ESP 800 Introduction to Environmental Science and Policy 2019. (Instructor: Dr. Wei Zhang) Guest Lecture “Nature-based solutions and accessibility of public urban green space” (February 12, 2019)
- Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). PDC 992 Advanced Research Method. 2018. (Instructor: Dr. Suk-kyung Kim) Guest Lecture “Introduction of Research Profile” (October 25, 2018)
- Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP892 Research Method. 2018. (Instructor: Dr. Sinem Kormaz) Guest Lecture “Introduction of Research” (October 14, 2018)
- Michigan State University, International Business Institute (IBI). 2017. Invited Lecture for IBI for Community College Faculty at MSU “An Overview of Southeast Asia – The Business and Political Environments” (January 6, 2017)
- Michigan State University, Department of Geography. 2016. Guest Lecture for Course GEO 873 Human Environment Seminar (Instructors: Drs. Chen, Moran, Qi) “Coupled Natural Human Urban Systems” (April 12, 2016)
- Michigan State University, Environmental Science and Policy Program. 2016. Guest Lecture for Course ESP 802 Human and Environment (Instructor: Dr. Emilio Moran) “Urban sustainability: theoretical framework and measurement” (February 16, 2016)
- Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP892 Research Method. 2013. (Instructor: Dr. Sinem Kormaz) Guest Lecture “Conducting research” (October 28 2013)
- Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP892 Research Method. 2012. (Instructor: Dr. Sinem Kormaz) Guest Lecture “Conducting research” (November 19, 2012)
- Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP400/800 Sustainable and Climate Resilient Cities. 2011. (Instructor: Dr. Kassens-Noor) Guest Lecture: “Urban sustainability in China” (March 22, 2011)
- Michigan State University, Global Urban Studies Program. 2011. Seminar “Urban sustainability in China: Are we moving toward the right direction?” (January 31, 2011)

Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP897 Research Writing. 2010. (Instructor: Dr. Kormaz) Guest Lecture “Research process of urban sustainability in China” (November 1, 2010)

Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP400/800 Sustainable Cities. 2010. (Instructor: Dr. Kassens-Noor). Guest Lecture: “Urban sustainability in China” (March 23, 2010)

Michigan State University, the Center for Global Change and Earth Observations (East Lansing, MI). 2009. Seminar “Urban sustainability in China” (April 3, 2009)

Michigan State University, School of Planning, Design, and Construction (East Lansing, MI). UP897 Research Writing. 2009. (Instructor: Dr. Kormaz) Guest Lecture: “Assessing sustainability of major cities in China” (April 1, 2009)

Michigan State University, Department of Geography (East Lansing, MI). GEO 337 Geography of the Asia-Pacific Region. 2008. (Instructor: Dr. Corey) Guest Lecture: “Staged catching-up theory and its spatial manifestation: development of domestic ICT firms in China.” (Mar 13, 2007)

## **NATIONAL AND INTERNATIONAL CONFERENCES**

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Association of Collegiate Schools of Planning (ACSP) Annual Conference (Zoom, Online). Presentation of “Urbanization and environmental changes in Yangon during economic transition of Myanmar” (November 6, 2020).

Association of Collegiate Schools of Planning (ACSP) Annual Conference (Greenville, SC). Presentation of “Compact and green urban development – towards a framework to assess urban development for high-density metropolis” (October 25, 2019).

Association of European Schools of Planning (AESOP) Annual Conference (Venice, Italy). Presentation of “Urbanization and sustainability under transitional economies: a synthesis for Asian Russia.” (July 11, 2019).

International Association of Landscape Ecology (IALE) World Congress (Milan, Italy). *Symposium SYMP 58 Urbanisation: Concepts, methods and spatially explicit indicators*. Presentation of “Asian urbanism and compact-green development: Concepts and framework for a spatially explicit indicator for transit-oriented Asian metropolis” (July 4, 2019).

International Union of Forest Research Organization (IUFRO) Landscape Ecology Conference 2018 (Posadas, Argentina & International Association of Landscape Ecology). Presenter for “Historic and cultural perspectives on planning urban green and forestry in densely populated Asian cities” (October 1-5, 2018)

International Union of Forest Research Organization (IUFRO) Landscape Ecology Conference 2017 (Martin Luther Universität, Halle-Wittenberg, Germany & International Association of Landscape Ecology). Presenter for “Nature-based

- solutions for urban landscapes under post-industrialization and globalization: Barcelona versus Shanghai” (September 24-29, 2017)
- Japan Geoscience Union (JpGU) and American Geophysical Union (AGU) Joint Meeting (Tokyo, Japan). 2017. Urbanization and sustainability under transitional economies and global change: A synthesis of North Asia Cities for NEESPI/NEFI Session MIS01 "Environmental, socio-economic and climatic changes in Northern Eurasia". (May 20, 2017)
- US-International Association of Landscape Ecology (US-IALE) Annual Conference (Baltimore). Symposium #6 “Evolving Landscapes under Institutional Change, Globalization, and Cultural Influence in Contrasting Urban Systems: An Introduction”. Co-organizer and Presenter for “Urban landscape evolution under globalization and transitional economy: An integrated framework for Siberian cities” (April, 2017).
- Association of American Geographers (AAG) Annual Conference (Boston). 2017. “Extreme climate events, globalization, and capital relocation: Urbanization and sustainability in Yangon, Myanmar” (April, 2017)
- Global Land Project 3<sup>rd</sup> Open Science Meeting. (Beijing, China). 2016. “Extreme climate events, globalization, and capital relocation: telecoupling and urbanization in Yangon, Myanmar” in session of “S20 Urban vulnerability/resilience to climate extremes”. Presenter (October 25, 2016)
- Society for Urban Ecology Conference. Shanghai, China. 2016. Session: From urban sprawl to compact green cities – indicators for multi-scale and multi-dimensional analysis. Session organizer, Co-organized with Martina Artimann and Luis Inostroza. (July 8-10, 2016)
- Society for Urban Ecology Conference (Shanghai, China). 2016. “Urban transformation and environmental changes of transitional economies: Hanoi after Doimoi.” in session of “Global Urbanization and Landscape Dynamics: Socioeconomic Drivers and Ecological Consequences.” Presenter (July 8-10, 2016)
- International Union of Forest Research Organization (IUFRO) Landscape Ecology Conference (University of Tartu, Tartu, Estonia). 2015. “The evolving landscape and accessibility of public green space in an urban periphery: the case of Shanghai.” Presenter (August 26, 2015)
- The Oxford Desert Conference. (University of Oxford, England). 2015. “Urbanization in Dryland East Asia”. Presenter (April 16, 2015).
- Association of American Geographers (AAG) Annual Conference (Chicago). 2015. Session “3420 Urbanization and the Environment in East Asia” Session Co-organizer (with Guo Chen) (April 22, 2015)
- Association of American Geographers (AAG) Annual Conference (Chicago). 2015. “Urban landscape and environment change during the economic transition in Mongolian Plateau: A comparative study of Hohhot and Ulaanbaatar, 1990-2010” Presenter at the session “3420 Urbanization and the Environment in East Asia”

- (April 22, 2015) (P. Fan as the lead author, presentation was given by graduate student Hogeun Park)
- 2nd International Conference on Urbanization and Global Environmental Change (Taipei, Taiwan). 2014. "Urbanization and Environmental Change in Dryland East Asia: Patterns and Drivers" Presenter at the Session 79 -- Drivers and Patterns of Urbanization: Towards a Typology (November 7, 2014)
- International Symposium on Global Change Research 2013: Coupled Natural and Human Systems (Nanjing, China). Member of the Scientific Committee and Poster presentation "Assessing Vulnerability of the coupled natural and human systems in a changing environment: the case of Lanzhou from a historic perspective" (June 18-20, 2013)
- Association of American Geographers (AAG) Annual Conference (Los Angeles). 2013. "Session 2405: The geography of innovative China" Session Co-organizer (with Yifei Sun and Sharmistha Bagchi-Sen) (April 10, 2013)
- Association of American Geographers (AAG) Annual Conference (Los Angeles). 2013. "Session 2505: Comparative studies on innovation and cluster I" Session Co-organizer (with Yifei Sun and Sharmistha Bagchi-Sen) & Chair (April 10, 2013)
- Association of American Geographers (AAG) Annual Conference (Los Angeles). 2013. "Session 2506: Comparative studies on innovation and cluster II" Session Co-organizer (with Yifei Sun and Sharmistha Bagchi-Sen) (April 10, 2013)
- Association of American Geographers (AAG) Annual Conference (Los Angeles). 2013. "Land use plan and urban development reality: Assessment of discrepancy and its spatial determinants in Shanghai" Presenter at the "Session 4219: New Geographies of Urban China V" (April 12, 2013)
- Association of Collegiate Schools of Planning (ACSP) Conference (Cincinnati). 2012. "Session 2.8: Wealth and Income Distribution during Economic Transitions." Moderator and Discussant (November 2, 2012)
- Association of American Geographers (AAG) Annual Conference (New York). 2012. "Session 4262: Urbanization, Land Use, and Regional Development in China II" Session Chair (February 27, 2012)
- Association of American Geographers (AAG) Annual Conference (New York). 2012. "Urban expansion, landscape pattern, and land conversion in a transitional economy: the case of Shanghai" Presenter (February 27, 2012)
- National Science Foundation (NSF), Workshop on Chinese Ways of Innovation: Strategic Directions of Research on Chinese Innovation (Los Angeles). 2011. Co-organizer (Lead organizer: Yifei Sun) (October 7-8, 2011)
- Global Land Project 2010 Open Science Meeting: Land Systems, Global Change and Sustainability (Tempe, AZ). 2010. "Forward to a post-industrial city? The evolution of the urban industrial land in Shanghai." Presenter (October 17, 2010)

- Association of Collegiate Schools of Planning (ACSP) Conference (Minneapolis, MN). 2010. "Planning vulnerable Chinese cities: A historic analysis of urban sustainability in Lanzhou." Presenter (October 10, 2010)
- Industrial Studies Association (ISA) Annual Conference (Chicago). 2010. "High-tech Innovation." Panel Chair (Session I, Panel 5) (May 6, 2010)
- Association of American Geographers (AAG) Annual Conference (Washington DC). 2010. "Rising new centers in globalizing cities: a case of Pudong New Area in Shanghai." Presenter (April 16, 2010)
- Association of American Geographers (AAG) Annual Conference (Las Vegas, NV). 2009. "S4113 Panel session: Latecomer Technological Upgrading and Global Production Networks, Session I". Organizer (co-organizers: Yifei Sun and Sharmistha Bagchi-Sen) (April 25, 2009)
- Association of American Geographers (AAG) Annual Conference (Las Vegas, NV). 2009. "Innovation, globalization, and catching-up by Chinese high-tech firms" at "S5145: Latecomer Technological Upgrading and Global Production Networks, Session II". Presenter (April 26, 2009)
- Association of American Geographers (AAG) Annual Conference (Las Vegas, NV), 2009. "S5245: Latecomer Technological Upgrading and Global Production Networks, Session III". Chair and Organizer (co-organizers: Yifei Sun and Sharmistha Bagchi-Sen) (April 26, 2009)
- Association of American Geographers (AAG) Annual Conference (Las Vegas, NV). 2009. "S5445: Latecomer Technological Upgrading and Global Production Networks, Session IV". Organizer (co-organizers: Yifei Sun and Sharmistha Bagchi-Sen) (April 26, 2009)
- Association of Collegiate Schools of Planning (ACSP) Conference (Chicago, IL). 2008. "Decoding China's high-tech triangle: Beijing, Shanghai, and Shenzhen." Presenter (July 8, 2008)
- Association of American Geographers (AAG) Annual Conference (Boston, MA). 2008. "Returning back vs. going global: Chinese high-tech firms in the global knowledge network". Presenter (April 18, 2008)
- The IEEE International Conference on Communications (ICC 2008), Management track program committee, Communications, Services, Knowledge and Engineering Management (Beijing, China). 2008. Reviewed 11 manuscripts that submitted to the conference for including in the conference proceeding. May 19-23, 2008
- Association of Collegiate Schools of Planning (ACSP) Conference (Milwaukee, WI). 2007. Discussant for Session 2-1 International Development. Reviewed and presented comments for three papers on innovation and state policy in China, Turkey, and South Korea. (October 20, 2007)
- The Second Global Conference on Economic Geography (Beijing, China), 2007. "Staged catching-up theory and its spatial manifestation: development of domestic ICT firms in China." Presenter (June 25, 2007)

- Association of American Geographers (AAG) Annual Conference (San Francisco). 2007. "Developing innovation capability: a comparative study of India and China's biotech industry". Presenter (April 20, 2007)
- International Conference on Strategic Alliance for Life Science in Asia-Pacific Rim Tokyo University (Tokyo, Japan). 2006. Invited Presentation: "Human Resource Training at UNU-IAS." Presenter (March 20, 2006)
- Association of American Geographers (AAG) Annual Conference (Chicago). 2006. "Remote Sensing and Narrative Perspectives for Urban Land Use Change Analysis in Japan". Presenter (March 10, 2006)
- Association of American Geographers (AAG) Annual Conference (Chicago), 2006. Session (#4430) Chair: Land Use in East Asia. (March 10, 2006)
- China Urbanization Conference (Nanjing, China). 2005. Chair of Session 5 "Urban Spatial Structure for the Conference" (December 10, 2005)
- China Urbanization Conference (Nanjing, China). 2005. "High-tech Parks in China: Comparative Analysis of Haidian Zone and Zhangjiang High-tech Park". Presenter (December 10, 2005)
- International Geographic Union (IGU) Annual Conference (Tokyo, Japan). 2005. "Japan's biotech clusters: growth engine for cities and regions?" Presenter (August 23, 2005)
- International Geographic Union (IGU) Annual Conference (Tokyo, Japan). 2005. Session Chair: Urban and Regional Development II. (August 21, 2005)
- Association of Collegiate Schools of Planning (ACSP) Conference (Portland, OR). 2004. "Comparative Analysis of Japan and China's Technology Policies and Industrial Development." Presenter.
- United Nations University – Institute of Advanced Studies (Yokohama, Japan) Roundtable. 2004. "Women hold up half of the sky –Chinese women in science and technology." Presenter.
- Association of American Geographers (AAG) Annual Conference (Philadelphia, PA), 2004. "Does the Government Play a Role in Late Industrialization? Evidence from Chinese Domestic ICT Firms' Catching-up". Presenter.
- United Nations University – Institute of Advanced Studies (Yokohama, Japan) Roundtable. 2004. Developing World in the Era of Knowledge Economy, Science and Technology Development Challenges. Principal Organizer (May 17, 2004)
- ACSP and AESOP Joint Conference (Leuven, Belgium). 2003. "Does Innovation Capacity Matter for Late Industrialization? A Case Study of Domestic firms in China." Presenter.
- Association of American Geographers (AAG) Annual Conference (New Orleans, LA). 2003. "Catching Up through Stages: A Model for analyzing Domestic Firms in Late Industrializing Countries." Presenter.

Association of Collegiate Schools of Planning (ACSP) Conference (Baltimore, MD).  
2002. “Made in China: The Rise of the Chinese Domestic Manufacturing Firms in the Information Technology Industry - A Case Analysis.” Presenter.

Association of Collegiate Schools of Planning (ACSP) Conference (Cleveland, OH). 2001.  
“Ownership and Locational Choices of a Multinational Company in A Socialist Market Economy: *A Case Study of Motorola in the People’s Republic of China*”.  
Presenter.

## **TEACHING EXPERIENCE**

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### Michigan State University

S07-F21	UP801 Concepts and Issues in Planning and Development
F20	UP854 Economics of Planning and Development
F12, S14, 15, F16, F18	UP855 Urban Sustainability and Climate Change
F07	UP353 Land Use Planning

### Massachusetts Institutes of Technology

F00-S03	1.00 Introduction to Computers and Engineering Problem Solving
S99, S00	11.481J Regional Economics Theory, Accounts, and Techniques
F98, F99	11.210 Microeconomics for planners

### Other Teaching Experiences: MIT Africa Internet Technology Initiative

Project Leader (Summer 2003, Cambridge, MA): Designed and implemented a pioneer self-learning program in Strathmore University, Kenya. Creatively used the Internet to assist 10 Kenyan students to self-study of an MIT course through the free MIT Open Course Ware material.

Curriculum Chair (2003, Cambridge, MA): led in preparing the curriculum for teaching in Kenya, Ghana, and Ethiopia in summer 2003. Selected 18 candidates from over 100 MIT applicants. Helped with other logistic issues of the program.

Teacher and Developer (Summer 2002, Kenya): introduced IT industry development, taught web-related technologies and languages (Java, JSP) to 75 college students, 5 teachers, and 35 high school students in Strathmore University and Alliance High School. Led in design, development, and implementation of the entire course (lecture notes, problem sets, and exams).

### Advising

Doctoral Dissertation Committee

(Note: URP program started to have its own Ph.D. program in 2014)

- Tanni Sarker, Ph.D. Candidate, Urban and Regional Planning (2020-); **Chair**.
- Kapoor Abhinav, Ph.D. Candidate, Urban and Regional Planning (2019-); **Chair**.

- Park, Hogeun, Urban and Regional Planning (2014-18); **Chair**. Ph.D. awarded in Aug. 2018
- Myung Sik Cho, Ph.D. Candidate, Geography (2018-);
- Tajminur Rahman, Ph.D. Candidate, Geography (2018-);
- Wu, Ruqun (Susie), Geography (Spring 2015 – Summer 2016). Ph.D. awarded in 2016
- Fan, Yi (Angela), Geography (Fall 2015 – Fall 2016).
- Ouyang, Zutao, Geography (Spr 2015 - Sum 2015). Ph.D. awarded in 2015
- Huang, Huiqing, Geography (Fall 2012 – Spr 2014).
- Li, Xue, Geography (Spr 2010 – December 2017). Ph.D. awarded in December 2017
- Ye, Minting, Geography (Fall 2007-Spring 2014). Ph.D. awarded in 2014.

Master student advisor:

- Zhao, Hongxue, Urban and Regional Planning (2015-18);
- Murray, Sarah, Urban and Regional Planning (2013-2015);
- Mao, Ziqi, Urban and Regional Planning (2013-2015);
- Chan Wang, Urban and Regional Planning (2013-2015);
- Zhu, Bo, Urban and Regional Planning (2006-2009);

Master student thesis committee chair:

- Murray, Sarah, Urban and Regional Planning (2013-2015)
- Mao, Ziqi, Urban and Regional Planning (2013-2015)
- Wang, Chan, Urban and Regional Planning (2013-2015)

Master student thesis committee

- Wang, Yuhao, Geography (2018-)
- Cangelosi, Elena, Urban and Regional Planning (2018-2019)
- Li, Wei, Urban and Regional Planning (2017-2019)
- Tao, Shiqi, Geography (2016-19)
- Hu, Chaoran, Agricultural, Food, and Resource Economics (2013-2014)
- Zhu, Bo, Urban and Regional Planning (2006-2009)
- Brinkley, Matthew Henson, Urban and Regional Planning (2006-2008)

Master student capstone paper committee:

- Chen, Xiaoyu, Public Policy (2014)

***Advisee Honor & Support***

- Tanni Sarker: 2020-21 MSU ESPP Doctoral Recruitment Fellowship
- Abhinav Kapoor: 2020-21 MSU College of Social Science Dean's Assistantship
- Abhinav Kapoor: 2019-20 MSU ESPP Doctoral Recruitment Fellowship
- Hogeun Park: 2018 Dissertation Fellowship (MSU)
- Hogeun Park: 2017 ACSP Gill Chin Lim Travel Award
- Hogeun Park: 2017 MSU ESPP Summer/Fall Fellowship (MSU)
- Hogeun Park: 2016 Fellowship for Socio-Environmental Synthesis Research for Graduate Students
- Hogeun Park: Asian Foundation Fellowship Summer 2015 (10 weeks in Mongolia for field surveys and interviews)
- Hogeun Park: MSU Bailey Scholars Graduate Fellowship (\$2000/year, 2015-2016)



- Hogeun Park: Korean Government Doctoral Study Abroad Fellowship (02/2014-08/2016, \$71,000)
- Sarah Murray: Outstanding Planning Student Award, American Institute of Certified Planners, 2015
- Sarah Murray: GCFSI Research Assistantship for AY 2013-14;
- Sarah Murray: US. Dept. of Education, Foreign Language and Area Studies (FLAS) Fellowships for Summer 2013 and AY 2014-2015 (Swahili)
- Sarah Murray: ESPP Networking Fellow 2014
- Huiqing Huang: 1/4 Research Assistantship (2010.9-2013.4), funded through the NASA grant
- Bo Zhu: MSU Best Graduate Student Paper for Shaochang Lee Competition, 2009; 1/4 Research Assistantship (funded through the start-up fund)

## **PROFESSIONAL SERVICES**

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### Leadership role and board member

International Association for Landscape Ecology (IALE). Secretary General (2019-2024)

International Union of Forest Research Organization (IUFRO) Officer 8.01.02 Landscape Ecology Working Party, Deputy Coordinator (2019-2024); North America Regional Coordinator (2018-21); IUFRO-IALE Coordinator (2021-)

Association of Collegiate Schools of Planning (ACSP), Track Co-Chair for Food Systems and Community Health Track (2019-2022). Member of Finance and Investment Committee (2019-2021, 2021-2023).

International Union of Forest Research Organization (IUFRO) Landscape Ecology Conference 2017 The Green-Blue Nexus: Forests, Landscapes and Services (Martin Luther Universitat, Halle-Wittenberg, Germany & International Association of Landscape Ecology). Scientific Board Member  
<http://iufrole2017.eli-web.com/> (September 24-29, 2017)

International Association for Landscape Ecology (IALE) “Urban and peri-urban governance” working group. One of the 12 initial founding members of the group (working group proposal accepted by IALE in November 2017)

### Editorial Services

Associate Editor, *Landscape and Urban Planning* (2021-)

Editorial Board Member. *Landscape and Urban Planning* (2019-21)

Editorial Board Member. *Sustainability* (2021-)

Editorial Board Member. *International Journal of Technology and Globalization* (2020-)

Associate Editor, *International Journal of Technology and Globalization* (2008-2019)

Associate Editor, *Journal of Science and Technology Policy Management* (09-16)

Associate Editor, *International Journal of Business and Systems Research* (07-15)

Ad Hoc Journal Reviewer

*Applied Geography* (2010, 2017)  
*Arid Land Research and Management* (2011)  
*Asia Pacific Business Review* (2006);  
*China Review* (2006, 2013, 2016);  
*China and World Economy* (2011)  
*Cities* (2013, 2017x2)  
*DigitalEarth* (2014)  
*Economic Geography* (2009, 2010, 2010, 2012, 2013, 2014);  
*Economy and Space* (2019)  
*Ecological Indicators* (2014, 2018x2)  
*Ecoscience* (2014)  
*Environment and Planning A* (2008, 2009, 2010; 2012, 2013x2, 2014, 2017, 2019, 2020);  
*Environment and Planning C* (2012)  
*Environmental Earth Sciences* (2013, 2014, 2015)  
*Environmental Impact Assessment* (2016)  
*Environmental Research* (2016, 2017x2, 2018)  
*Environmental Research Letter* (2019x2, 2020x3)  
*Environmental Science and Technology* (2011, 2013, 2015, 2020)  
*Euroasian Geography & Economics* (2014)  
*Frontiers in Environmental Science* (2019)  
*Geoforum* (2013)  
*Global Networks* (2009, 2010);  
*Global Change Biology* (2018, 2019)  
*Habitat International* (2015, 2016, 2018, 2019, 2020)  
*International Journal of Biotechnology* (2006, 2008);  
*International Journal of Business System Research* (2012);  
*International Journal of Technology Management* (2005, 2008, 2011x2, 2012, 2015);  
*International Journal of Technological Learning, Innovation and Dev.* (2014)  
*Issues and Studies* (2012)  
*Journal of Asia Business Studies* (2006);  
*Journal of Asia Pacific Economy* (2008);  
*Journal of Clean Production* (2020);  
*Journal of Engineering and Technology Management* (2018);  
*Journal of Environment Management* (2012);  
*Journal of Science and Technology Policy in China* (2009, 2011x2, 2012, 2013, 2014);  
*Journal of Science & Technology Policy Management* (2017)  
*Journal of Transport and Health* (2019)  
*Journal of Urban Planning and Development* (2014)  
*Landscape Ecology* (2011, 2013, 2014x2, 2019x3, 2020x3)

*Landscape and Urban Planning* (2015x2, 2016, 2018x2, 2019x4, 2020x10, 2021)  
*Land Use Policy* (2015, 2016, 2017, 2019x2)  
*npj (Nature) Urban Sustainability* (2021)  
*Physics and Chemistry of the Earth* (2016)  
*Plos One* (2015, 2016, 2017, 2018x2, 2020, 2021)  
*Regional Studies* (2009; 2011; 2012, 2014x2);  
*Regional Science Policy and Practice* (2011);  
*Regional Science* (2019)  
*Review of International Economics* (2009);  
*Rivista di Politica Economica* (2010)  
*Urban Studies* (2009, 2011, 2013x2, 2014x2, 2015, 2021);  
*Urban Forestry and Urban Greening* (2013, 2015, 2018)  
*Science* (2013)  
*Science and Public Policy* (2012)  
*Stochastic Environmental Research and Risk Assessment* (2012x2)  
*Sustainability Science* (2018x2, 2019)  
*Technovation* (2006, 2007, 2008, 2010, 2012);  
*Technology in Society* (2011, 2018, 2019x4, 2020)  
*Technology Forecast and Social Change* (2017, 2020, 2021x2)  
*Telecommunications Policy* (2011, 2015, 2019, 2020);  
*The World Economy* (2012)  
*Transactions on Engineering Management* (2008);  
*World Development* (2013, 2015, 2016)

#### Reviewer for international/national agencies

- **National Aeronautics and Space Administration (NASA), USA** (2021) Grant Proposal Panel Reviewer for the Land Cover and Land Use Change Program
- **Scientific Committee of EARSel Liège Joint Workshop** Abstract Review, 2020
- **Ministry of Science and Technology, Taiwan**, Outstanding Research Award, 2019
- **National Aeronautics and Space Administration (NASA), USA** (2017) Grant Proposal Panel Reviewer for the Land Cover and Land Use Change Program
- **National Science Foundation (NSF), USA**, (2016) Grant Proposal Reviewer for Science of Science and Innovation Policy Program, (2017) Grant Proposal Reviewer for CAREER
- **Fulbright, USA**, (2017) Panel Reviewer for Fulbright Taiwan Fellowship and MA scholarship
- **Environmental Protection Agency (EPA), USA**, (2016) Grant Proposal Panel Reviewer for Integrating Human Health and Well-Being with Ecosystem Services Program

- **UK Department of International Development**, Research and Evidence Division, Expert Reviewer for Literature Review “What is the evidence on the impact of research on international development?” (2014)
- **Global Land Project (GLP) & United Nations University-Institute of Advanced Studies** Policy Report (2010)

#### Reviewer for book proposal and book chapters

*Book title: Transportation Futures: Integrating Transportation, Land Use, and Environmental Planning for Sustainable Urban Development. Elizabeth Deakin. Elsevier (2017)*

*Book title: Tech Valley: How it was Built and What is Needed to Sustain IT. Charles W. Wessner and Thomas R. Howell. Elsevier (2017)*

*Book title: From Vulnerability to Sustainability: Rural Development in the Poyang Lake Region of China amid Flood Hazards and Urbanization. Qin Tian. Springer (2016).*

*Book title: Research Methods of Continental Ecology. Chen, Jiquan and Yang, Shuying (eds). Higher Education Press (2011)*

*Book title: Remote Sensing of Land Use/Land Cover: Principles and Applications. Chandra P. Giri (eds). Taylor and Francis (CRC Press) (2010)*

#### University/College/School Services

- *Faculty Senate, 2021-*
- *Environmental Science and Policy Program: Faculty Judge for best student poster at Fate of the Earth Day, April 13, 2019.*
- *University Research Integrity Council, 2015*
- *Environmental Science and Policy Program: Faculty Judge for best student poster at Research Symposium "Environmental Risk and Decision Making", 2014*
- *College of Social Science, Research Committee, 2016-*
- *Strategic Partnership Grant (SPG) Pre-proposal Reviewer Panel, 2020*
- *Strategic Partnership Grant (SPG) Pre-proposal Reviewer Panel, 2019*
- *College of Social Science, Chair of Review Team 1 for Strategic Planning Thematic Areas Selection, Fall 2017 (chaired a team of 6 members to review 34 Pre-proposals)*
- *College of Social Science, Curriculum Committee, 2017-2018*
- *College of Social Science, Curriculum Committee, Subcommittee for Science and technology Curriculum Requirement. Fall, 2017*
- *College of Social Science, Review Committee, Director of Global Urban Studies Program (GUSP) at MSU, 2016-2017*

- *College of Social Science: Panelist for Faculty Mentoring Workshop “Juggling demand and managing your time” (Mar. 2016)*
- *College of Social Science: Panelist for New Faculty Orientation, 2014*
- *College of Social Science: Panelist for New Faculty Orientation, 2013*
- *College of Social Science, Faculty Advisory Council (FAC), 2010-2012*
- *College of Agriculture and Natural Resources, Faculty Mentoring Policy Meetings, 2011- 2013*
- *College of Social Science, CGCEO Director Review Committee, 2012*
- *University Undergraduate Research and Arts Forum (2012) – Faculty Judge*
  
- *SPDC review group member for the probationary review of a teaching specialist, 2021*
- *SPDC review group member for the reappointment of an assistant prof., 2020*
- *SPDC review group member for the reappointment of an assistant Prof., 2018*
  
- *SPDC Faculty Advisory Committee, 2014-2016; 2016-2018; 2020-*
- *SPDC Reappointment and Promotion Committee, 2020- [Secretary (20-21)]*
- *SPDC Ph.D. Committee, 2018-*
- *SPDC URP Faculty Search Committee Chair (Academic Specialist in Teaching), 2018-2019*
- *CSS Coastal Theme Faculty Search Committee, 2018-2019*
- *SPDC URP Faculty Search Committee Chair, 2015-16*
- *SPDC URP Faculty Search Committee, 2009; 2013*
- *SPDC Technology Committee (Ad hoc), 2008-2011; Co-Chair (2011-2015)*
- *SPDC URP Practicum Review Committee, 2007, 2008*
- *SPDC URP Teaching Assistant Review Committee, 2007*
- *SPDC URP Study Abroad (China Program) Committee, 2007*
- *SPDC URP Study Abroad (China and Korea Program) Committee, 2008*
  
- *CGCEO Faculty Search Committee, (also designated as the affirmative action advocate), 2016-2017*

## **PROFESSIONAL ASSOCIATIONS**

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National Committee on US-China Relations (NCUSCR) (invited member)  
 Association of Collegiate Schools of Planning (ACSP)  
 Association of American Geographers (AAG)  
 American Planning Association (APA)  
 International Association for China Planning (IACP)  
 Sloan Industry Studies Association

## **LANGUAGE**

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Chinese (native), Japanese (advanced), French (intermediate), Russian (beginning)

## **VOLUNTEER WORK**

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**MSU Chinese Faculty Club (CFC)** (East Lansing, MI, USA), Treasurer, 2021-2024

The MSU CFC is a non-profit, non-political organization on campus, and its members are faculty of Chinese heritage and others who support the mission and goals of the CFC, with close to 180 members.

**Spartan Chinese School** (East Lansing, MI, USA), Principal, 2019-2021;  
Member of the Board of Directors, 2021-

Spartan Chinese school is one of the largest Chinese language schools in the Mid-Michigan Area that provides weekend Chinese language education. It is a non-profit organization operated by volunteer-based school executive committee and Chinese language teachers. Currently, it offers 11 grades (K, Grade 1-9, AP preparation) of Chinese language classes.

**Okemos Science Institute** at *Okemos Public Montessori at Central* (Okemos, MI, USA), Parent volunteer, 2017-2020

**Tokyo Union Church Onigiri** (Rice Ball) for the Homeless (Tokyo, Japan), Volunteer, 2004-2006

**MIT Africa Internet Technology Initiative** (Cambridge, MA and Nairobi, Kenya), Project Leader, Curriculum Chair, Teacher and Developer, 2002-2003, (see details in the teaching experience section)

**China Red Cross** (Nanjing, China), Blood Donor, 1992