

Fang Wang

Curriculum Vitae

Center for Systems Integration and Sustainability
Michigan State University
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Appointments

- 2015-now **Post-doctoral Fellow**
Center for Systems Integration and Sustainability, Michigan State University, Michigan, USA
Advisor: Jianguo Liu
- 2012-2015 **Post-doctoral Fellow**
Smithsonian Conservation Biology Institute, National Zoological Park, Front Royal, Virginia, USA
Advisor: William J. McShea

Education

- Jul. 2012 **Ph.D., Zoology**
School of Life Science, Peking University, Beijing, P. R. China
Advisor: Zhi Lu
- Jul. 2005 **B.S., Bio-Technology**
School of Life Science, Peking University, Beijing, P. R. China

Recent Publications

- 2015 **Wang, F.**, McShea, W. J., Wang, D., & Li, S. (2015). Shared resources between giant panda and sympatric wild and domestic mammals. *Biological Conservation*, 186: 319-325.
- Guan, T., Wang, F., Li, S., & McShea, W. J. (2015). Nature reserve requirements for landscape-dependent ungulates: The case of endangered takin (*Budorcas taxicolor*) in Southwestern China. *Biological Conservation*, 182: 63-71.
- Wang, F.**, McShea, W. J. & Li, S., Does One Size Fit All? A Multi-species Approach to Giant Panda Corridor Planning. In Prep.
- Wang, F.**, Zhao, Q., Huang, Q, McShea, W. J. & Songer, M., Incorporating spatial autocorrelation alters the climate-mediated future of giant panda and bamboo forest. In Prep.

2014 **Wang, F.**, McShea, W. J., Wang, D., Li, S., Zhao, Q., Wang, H. & Lu, Z. Evaluating landscape options for corridor restoration between giant panda reserves. *PLoS One* 9: e105086

Conference Presentations (lead presenter, oral presentation)

2014 **Wang, F.**, McShea, W. J., Wang, D., Li, S., Zhao, Q., Wang, H. & Lu, Z. An integrated conservation planning for wildlife communities in central China. Beijing Forum. Beijing, China, November.

2013 **Wang, F.**, McShea, W. J., Wang, D., Li, S., Zhao, Q., Wang, H. & Lu, Z. Evaluating landscape options for corridor restoration between giant panda reserves. The International Congress of Conservation Biology. Baltimore, MD, July.

Wang, F., McShea, W. J., Wang, D. & Li, S. Habitat restoration for a multi-species migration corridor. The Annual Conference of the Wildlife Society. Milwaukee, WI, October.

2012 **Wang, F.**, McShea, W. J., Wang, D. & Li, S. Conservation planning for isolated giant panda populations. The International Conference on Bear Research and Management. New Delhi, India.

Research Experience

2012-2015 **Post-doctoral Fellow.** Smithsonian Conservation Biology Institute, National Zoological Park.

- Examine the relationships between environmental factors and the spatial and temporal variability in giant panda and its sympatric species distributions and abundance
- Develop models relating wildlife population dynamics to anthropogenic interferences and predict population responses to human activities
- Adaptive conservation planning that anticipate and respond to climate change

2006-2012 **Doctoral Researcher.** Giant Panda and Wildlife Conservation Research Centre, School of Life Science, Peking University.

- Habitat corridor identification and restoration for giant panda.
- Conservation network building for nature reserves in Shaanxi Province.

Teaching Experience

2014 **Chief Instructor** for training courses “Analyzing Monitoring Data for Nature Reserve Management”, 24 participants, 7 nature reserves, China.

Chief Instructor for training courses “Bear Survey Method: Principle and Field Techniques”, 45 participants, 15 nature reserves, China.

Developed and taught a team of graduate students in habitat modelling/ Bayesian models. School of Life Science, Peking University.

Grants

- 2015 **PI.** Ocean Park Conservation Funds, Hong Kong. Field Guide for Mammals in Southwestern China. HK\$ 248,000.
- 2014 **PI.** Ocean Park Conservation Funds, Hong Kong. Restore Habitat Connectivity in Pingwu County: Combining Scientific Research and Community-based Activities. HK\$ 200,650.
- 2013 **Co-PI.** Chinese Academy of Forestry. Wildlife corridor restoration and adaptive conservation planning in respond to the climate change. RMB ¥200,000
- 2012 **PI.** Ocean Park Conservation Funds, Hong Kong. Assessment of Giant Panda Corridors: Road Effect, Corridor Effectiveness and Corridor Restoration HK\$ 120,000.
- 2010 **Co-PI.** Conservation International, Beijing. Evaluation of isolated giant panda populations. USD \$25,000.
Co-PI. Ocean Park Conservation Funds, Hong Kong. Case Study on Giant Panda Corridor Restoration in Qinling and Pingwu. HK\$ 346,800.

Computer Skills

- Extensive experience in statistical modeling.
Computer program: R, BUGS.
- Extensive experience in spatial analysis and digital image processing.
Computer program: ArcGIS, Python, R packages unmarked, maptools, spdep.
- Experience in database management.
Computer program: Microsoft Office Access, complex datasets in R.

Extraordinary Experience

- 2006-now **Contract Photographer.** Wild China Film/ National Geographic
- Chief instructor of Chinese Wildlife Photographic Training Camp
 - Published four photographic books
- 2003-2005 **Society Leader.** The Greenlife Student Society
- Top 5 student society in Peking University (2004,2005)