

# Xingfeng Si

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## RESEARCH INTERESTS

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Animal ecology, biodiversity, camera traps, conservation biology, farmland abandonment, habitat fragmentation, island biogeography, land reclamation, ornithology, wildlife monitoring

## POSITION

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2014– **Postdoctoral Research Fellow.** College of Life Sciences, Zhejiang University

## EDUCATION

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2008–2014 **Ph.D.** in Ecology, Zhejiang University  
2012–2013 **Visiting Student** in Ecology, Duke University  
2004–2008 **B.S.** in Biology, Zhejiang Normal University

## AWARDS AND HONORS

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2014 **Poster Award of WERC National Conference**, Mammalogical Society of China  
2013 **Gold Award of the 9th Kingfisher Forum**, China Ornithological Society  
2012 **Award of Honor of the 1st Student Forum**, CLS Zhejiang University  
2011 **Graduate of Merit in 2010–2011**, Zhejiang University  
2011 **First-class Award of Honor for Graduate in 2010–2011**, Zhejiang University  
2011 **Gold Award of the 7th Kingfisher Forum**, China Ornithological Society  
2009 **Silver Award of the 5th Kingfisher Forum**, China Ornithological Society  
2008 **Ten Outstanding Research & Training Students**, Zhejiang Normal University  
2005 **Excellent Student Cadre in 2004–2005**, Zhejiang Normal University  
2005 **Second-class Scholarship in 2004–2005**, Zhejiang Normal University  
2005 **Excellent League Member in 2004**, Zhejiang Normal University

## GRANTS AND FELLOWSHIPS

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2012–2013 **Joint-training Ph.D. Program**, China Scholarship Council. (Scholarship: c. 21,000 USD)  
2008–2013 **Full Graduate Scholarship**, Zhejiang University. (Scholarship: c. 12,000 USD)

2006–2007 Observations of the reproductive behavior of rodents. **Laboratory Open Program of Zhejiang Normal University**. (Role: 1/3)

### Participated Projects (Selected)

- 2015–2018 The small-island effect of amphibian and reptile assemblages in the Thousand Island Lake. **National Science Foundation of China**. (Role: 6/10)
- 2013–2017 Food web structure and its effects on avian and plant communities in subtropical fragmented habitats — A case study in the Thousand Island Lake. **National Science Foundation of China**. (Role: 4/8)
- 2012–2015 Dynamic and stability of forest bird communities in fragmented habitats of Thousand Island Lake. **National Science Foundation of China**. (Role: 6/10)
- 2012–2014 Sensitivity researches on habitat fragmentation of birds and reptiles in Thousand Island Lake. **National Science Foundation of China**. (Role: 5/8)
- 2012–2014 Body size evolution and life history response of *Takydromus septentrionalis* on fragmented islands. **National Science Foundation of China**. (Role: 3/7)
- 2010–2012 Biodiversity census in Baishanzu National Nature Reserve (Plants, Mammals and Birds). **Baishanzu National Nature Reserve**. (Role: fieldwork)
- 2009–2011 Effects of habitat fragmentation on life history traits of birds in Thousand Island Lake. **National Science Foundation of China**. (Role: fieldwork)
- 2009–2010 Wildlife resource census in Wuxijiang Wetland Park, Zhejiang. **Forestry Administration of Qujiang District**. (Role: fieldwork)
- 2008–2011 Demonstration project of resource monitoring technology for forest birds. **Special Topic of National Key Technology R & D Program of China**. (Role: 3/5)
- 2008–2008 Wildlife resource census in Hongshuang Nature Reserve, Rui'an, Zhejiang. **Forestry Administration of Rui'an City**. (Role: fieldwork)
- 2007–2009 Effects of habitat fragmentation on species diversity and community compositions of birds in Thousand Island Lake. **National Science Foundation of China**. (Role: fieldwork)

### PUBLICATIONS <sup>†</sup>in Chinese (with English abstract)

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#### Peer-reviewed Journal Articles

6. Si X, Baselga A, Ding P (2015) Revealing beta-diversity patterns of breeding bird and lizard communities on inundated land-bridge islands by separating the turnover and nestedness components. *PLoS ONE* 10: e0127692.
5. Si X, Pimm SL, Russell GJ, Ding P (2014) Turnover of breeding bird communities on islands in an inundated lake. *Journal of Biogeography* 41: 2283–2292.
4. Si X, Kays R, Ding P (2014) How long is enough to detect terrestrial animals? Estimating the minimum trapping effort on camera traps. *PeerJ* 2: e374.
3. <sup>†</sup>Si X, Ding P (2014) Camera trap survey of population dynamics of mammals and birds in Gutianshan Forest Dynamics Plot, eastern China. *Biodiversity Science* 22: 819–822.
2. <sup>†</sup>Xu A, Si X, Wang Y, Ding P (2014) Camera traps and its minimum trapping effort for ground-dwelling mammals in fragmented habitats in the Thousand Island Lake, Zhejiang Province. *Biodiversity Science* 22: 764–772.

1. <sup>†</sup>Si X, Ding P (2011) History, status of monitoring land birds in Europe and American and counter-measures of China. *Biodiversity Science* 19: 303–310.

## Other Professional Publications

3. <sup>†</sup>Si X (2014) *Species Turnover and Beta Diversity of Breeding Bird Communities in Fragmented Habitats*. PhD dissertation, Zhejiang University, Hangzhou.
2. Si X, Ding P (2014) Turnover of breeding birds on land-bridge islands. *Newsletter of China Ornithological Society* 23(1): 30.
1. <sup>†</sup>Zhang L, Bao Y, Li H, Si X, Hu S (2008) The functional groups and trophic levels of soil macro-fauna in different vegetation types, Beishan Mountain, Jinhua. In: *Proceedings of the 8th National Symposium on the Conservation and Sustainable Use of Biodiversity in China, Jinhua, China* 2008: 257–267.

## Popular Articles and Others

3. <sup>†</sup>Si X (2014) Dry Tortugas National Park — Home of the sooty tern. *China Nature* 2014(6): 76–81.
2. <sup>†</sup>Si X (2014) Apply for the China Scholarship Council fund. *China Postgraduates* 2014(9): 58–59.
1. <sup>†</sup>Si X (2014) How to track the latest references. *China Postgraduates* 2014(6): 32–33.

## PRESENTATIONS

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### Oral Presentations

14. Si X, Ding P (2014) Turnover of breeding bird communities in Thousand Island Lake. *The 17th National Conference of the China Zoological Society*, Guangzhou, China
13. Si X, Ding P (2014) Minimum trapping efforts on camera traps. *The 10th National Conference on Wildlife Ecology and Resource Conservation*, Guilin, China
12. Si X, Ding P (2014) Biodiversity monitoring using camera traps. *The 6th Symposium of Biodiversity Conservation and Sustainable Development in Zhejiang*, Zhoushan, China
11. Si X, Pimm SL, Russell GJ, Ding P (2014) Turnover of breeding bird communities on islands of an inundated lake. Institute of Botany, Chinese Academy of Sciences, Beijing, China. (Invited talk)
10. Si X, Ding P (2014) Turnover of breeding bird communities on land-bridge islands. *The 3rd Forum of Zhejiang Scholars on Zoology*, Lishui, China
9. Si X, Ding P (2014) Species turnover of bird communities on land-bridge islands in Thousand Island Lake, eastern China. *The 6th EAFES International Congress*, Haikou, China
8. Si X, Pimm SL, Russell GJ, Ding P (2013) Determinants of colonization-extinction dynamics of breeding bird communities on land-bridge islands. *The 12th China Ornithological Congress and the 9th Kingfisher Forum of Chinese Young Ornithologists Workshop*, Hangzhou, China
7. Si X (2012) Biodiversity research in the Thousand Island Lake region. *The Pimm Group at Duke University*, Durham, North Carolina, USA
6. Si X (2012) Introduction to camera traps. *Undergraduate Summer Zoology Field Practice*, Thousand Island Lake, China

5. **Si X**, Ding P (2011) Minimum trapping effort of monitoring ground-activity animals using camera traps: a case study in Gutianshan National Nature Reserve. *The 7th Kingfisher Forum of Chinese Young Ornithologists Workshop*, Lanzhou, China
4. **Si X**, Ding P (2010) Monitoring ground-activity birds using camera trapping in Gutianshan 24-ha plot. *The 9th National Symposium on the Conservation and Sustainable Use of Biodiversity in China*, Xiamen, China
3. **Si X**, Ding P (2010) Bird monitoring in Gutianshan 24-ha plot: using spot mapping and infrared cameras. *The 2010 International Forum on Biodiversity Monitoring*, Nanjing, China
2. **Si X**, Shen G, Ding P (2009) Basic results of monitoring bird communities in Gutianshan 24-ha plot. *The 3rd Cross-strait Symposium on Forest Dynamic Plots*, Zhaoqing, China
1. **Si X**, Ding P (2009) Bird community structures in Gutianshan dynamic monitoring plot. *The 5th Kingfisher Forum of Chinese Young Ornithologists Workshop*, Harbin, China

## Poster Presentations

6. **Si X**, Baselga A, Ding P (2015) Partitioning beta diversity into turnover and nestedness components in assemblages of breeding birds and lizards on inundated land-bridge islands. *The 7th Biennial Conference of the International Biogeography Society*, Bayreuth, Germany. (with lightning talk)
5. **Si X**, Pimm SL, Russell GJ, Ding P (2014) Breeding bird turnover on land-bridge islands. *The 10th National Conference on Wildlife Ecology and Resource Conservation*, Guilin, China
4. **Si X**, Pimm SL, Russell GJ, Ding P (2014) Breeding bird turnover on land-bridge islands. *The 26th International Ornithological Congress*, Tokyo, Japan
3. **Si X**, Ding P (2014) Wildlife monitoring using camera traps in Gutianshan National Nature Reserve, Zhejiang. *The 1st Symposium of Wildlife Biodiversity Monitoring on Camera Traps*, Beijing, China
2. **Si X**, Ding P (2012) How long is enough to monitor ground-dwelling animals? A case study of minimum trapping effort in Gutianshan National Nature Reserve, eastern China. *The 1st Student Forum on Sci-Tech Innovation of College of Life Sciences at Zhejiang University*, Hangzhou, China
1. **Si X**, Ding P (2012) How long is enough to monitor ground-dwelling animals? A case study of minimum trapping effort in Gutianshan National Nature Reserve, eastern China. *The 13th Student Conference on Conservation Science*, Cambridge, UK

## TEACHING EXPERIENCE

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- **Teaching Assistant.** *Undergraduate Summer Zoology Field Practice*, Tianmushan Biosphere Reserve, China: 2009, 2010, 2012, 2014

## SPECIALIZED TRAINING

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- 2014 **The 2nd International Training Course on Frontier in Animal Ecology and Conservation Biology.** Organized by SCB-China, ISZS and IOZ CAS, 2014.11.22–12.01, Beijing, China
- 2014 **Functional and Phylogenetic Diversity.** Nathan Swensson (Michigan State University), 2014.09.28–29, Beijing, China
- 2013 **Metapopulation Capacity Analyses (Mathematica v9).** Gareth Russell (New Jersey Institute of Technology), 2013.01.28–30, Durham, North Carolina, USA

- 2013 **Survival Rate Analyses and Banding Training of the Sooty Tern *Onychoprion fuscatus*.** Stuart Pimm (Duke University), 2013.3.11–14, Dry Tortugas, Florida, USA
- 2010 **Wildness First Aid.** Lloyd Figgins (EarthWatch Institute), 2010.10.07–10, Kaihua, China
- 2009 **Spatial Analysis Biostatistics.** Pierre Legendre (Université de Montréal), 2009.10.01–05, Beijing, China
- 2009 **Linear Regression.** Pierre Legendre (Université de Montréal), 2009.09.10–15, Beijing, China
- 2009 **Mathematical Statistics, R Programming Language and Multivariate Statistical Analyses.** Jiangshan Lai, Jinlong Zhang (Institute of Botany, Chinese Academic of Science), Yanping Chen (Renmin University of China), 2009.09.05–09, Beijing, China

## PARTICIPATION IN SCIENTIFIC CONFERENCES (SELECTED)

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- 2015 Biennial Conference of the International Biogeography Society, Bayreuth, Germany
- 2014 International Ornithological Congress, Tokyo, Japan
- 2014 EAFES International Congress, Haikou, China
- 2013 International Congress on Conservation Biology, Baltimore, Maryland, USA
- 2012 Student Conference on Conservation Science, Cambridge, UK
- 2011 Symposium for Theoretical Ecology and Biodiversity, Guangzhou, China
- 2010 The 2010 International Forum on Biodiversity Monitoring, Nanjing, China
- National Conference of the China Zoological Society: 2014(Guangzhou)
  - National Conference on Wildlife Ecology and Resource Conservation: 2011(Jinhua), 2014(Guilin)
  - China Ornithological Congress: 2009(Harbin), 2011(Lanzhou), 2013(Hangzhou)
  - Cross-strait Symposium on Forest Dynamic Plots: 2009(Zhaoqing), 2010(Xiamen)
  - National Symposium on the Conservation and Sustainable Use of Biodiversity in China: 2008(Jinhua), 2010(Xiamen)
  - Kingfisher Forum of Chinese Young Ornithologists Workshop: 2008(Beijing), 2009(Harbin), 2011(Lanzhou), 2013(Hangzhou)

## PROFESSIONAL AFFILIATIONS

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- Member International Biogeography Society, Society for Conservation Biology, International Society of Zoological Sciences, China Ornithological Society, Ecological Society of Zhejiang Province, Zhejiang Zoological Society

## ACADEMIC SERVICE, PROFESSIONAL DEVELOPMENT AND PUBLIC OUTREACH

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- 2014–2015 **Conference Coordinator.** International Workshop of Habitat Fragmentation and Biodiversity Conservation in the Thousand Island Lake, Chun'an, Hangzhou, China  
Attendees: Richard T. Corlett, Raphael K. Didham, Robert D. Holt, Marcel Holyoak, William F. Laurance, Stuart L. Pimm, Scott K. Robinson, Sabrina E. Russo, David S. Wilcove, Jianguo Wu, etc.
- 2013 **Assistant Conference Organizer.** The 9th Kingfisher Forum of Chinese Young Ornithologists Workshop, Hangzhou, China

- 2013 **Volunteer.** Sooty Tern (*Onychoprion fuscatus*) Project of US National Park Service, Dry Tortugas, Florida, USA
- 2011 **Invited Guest.** Chuyang Forum of Zhejiang Normal University, Jinhua, China
- 2011 **Invited Report.** Yiting High School, Yiwu, China
- 2008 **Beijing Olympic Torch Escort.** Beijing Olympic Torch Relay Center, Shaoxing, China
- 2006–2007 **Deputy Director.** The Secretariat of Student Council of Chuyang Honors College at Zhejiang Normal University, Jinhua, China
- 2004 **Student Representative.** The 2004 Graduation Ceremony of Yiting High School, Yiwu, China

## COMPUTER SKILLS

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Statistical R, Mathematica, WinBUGS  
 Others L<sup>A</sup>T<sub>E</sub>X, Adobe Photoshop, MS Office Suite, EndNote, OS X iWork

## LANGUAGES AND OTHERS

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Language English (Fluent), Mandarin (Excellent), Wu Chinese (Native)  
 Field skill Wilderness First Aid (Level 2)  
 Running Marathon (4:51:44)

## PROFESSIONAL REFERENCES

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**Ping Ding**, Professor, Dean of Department of Biology  
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 Duke University, Nicholas School of the Environment  
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**Scott K. Robinson**, Ordway Professor of Ecosystem Conservation  
 Florida University, Florida Museum of Natural History  
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 Web: <https://www.flmnh.ufl.edu/ordwaylab>

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 Florida International University, Department of Biological Sciences  
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