

# XINGFENG SI

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## RESEARCH INTERESTS

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

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## POSITION

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

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## EDUCATION

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

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## AWARDS and HONORS

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

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## GRANTS and SCHOLARSHIPS

2012–2013 **Joint-training Ph.D. Program**, China Scholarship Council. (Scholarship: ~21,000 USD)

2008–2013 **Full Scholarship for Graduate**, Zhejiang University. (Scholarship: ~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)*

2013–2017 **Effects of food webs and community compositions of birds and plants in subtropical fragmented habitats: a case study on land-bridge islands in 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.** 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

### *Peer-reviewed Journal Articles*

3. **Si X.**, Pimm S.L., Russell G.J. & Ding P. (2014) Turnover of breeding bird communities on islands in an inundated lake. *Journal of Biogeography*, doi: 10.1111/jbi.12379.
2. **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.
1. **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.

### *Submitted, Under Revision or in Preparation*

- **Si X.**, Baselga A. & Ding P. Partitioning beta diversity into turnover and nestedness components in assemblages of breeding birds and lizards on inundated land-bridge islands. *submitted*.
- **Si X.** & Ding P. Distributions of bird and lizard communities on land-bridge islands: decomposing taxonomic and functional beta diversity into their turnover and nestedness components. *in preparation*.
- Shen G., Pimm S.L., Feng C., Ren G., Liu Y., Xu W., Li J., **Si X.**, Su H. & Xie Z. Climate change challenges the static conservation strategy for the giant panda. *under revision*.
- Xu, A., **Si X.**, Wang Y. & Ding P. Camera traps in fragmented habitat for large ground-dwelling mammals in the Thousand Island Lake. *under revision*.

### *Other Professional Publications*

4. **Si X.** (2014) *Species Turnover and Beta Diversity of Breeding Bird Communities in Fragmented Habitats*. Ph.D. thesis, Zhejiang University, Hangzhou.
3. **Si X.**, Pimm S.L., Russell G.J. & Ding P. (2014) Turnover of breeding bird communities on land-bridge islands: testing MacArthur and Wilson's theory. *Ornithological Science*, 13: S842.

2. **Si X.** & Ding P. (2014) Turnover of breeding birds on land-bridge islands. *Newsletter of China Ornithological Society*, 23(1): 30.
1. Zhang L., Bao Y., Li H., **Si X.** & Hu S. (2008) The functional groups and trophic levels of soil macrofauna in different vegetation types, Beishan Mountain, Jinhua. *Proceedings of the 8th National Symposium on the Conservation and Sustainable Use of Biodiversity in China, Jinhua, China*: 257–267.

#### *Popular Articles and Other Publications*

3. **Si X.** (2014) Dry Tortugas National Park — Home of the sooty tern. *China Nature*, in press.
2. **Si X.** (2014) Apply for the China Scholarship Council fund. *China Postgraduates*, in press.
1. **Si X.** (2014) How to track the latest references. *China Postgraduates*, 2014(6): 32–33.

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## PRESENTATIONS

#### *Oral Presentations*

11. **Si X.**, Pimm S.L., Russell G.J. & Ding P. (2014) Turnover of breeding bird communities on islands of an inundated lake. Institute of Botany, the Chinese Academy of Sciences, Beijing, China
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 S.L., Russell G.J. & 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*

4. **Si X.**, Pimm S.L., Russell G.J. & 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

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## TEACHING EXPERIENCE

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

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## PROFESSIONAL TRAINING

- 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

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## PROFESSIONAL AFFILIATIONS

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

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## PARTICIPATION in SCIENTIFIC CONFERENCES (Selected)

- 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 on Wildlife Ecology and Resource Conservation: 2011(Jinhua)
  - 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)

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## SYNERGISTIC ACTIVITIES

- 2013 **Local Conference Organizer.** The 9th Kingfisher Forum of Chinese Young Ornithologists Workshop, Hangzhou, China
- 2013 **Volunteer.** Sooty Tern (*Onychoprion fuscatus*) Project of U.S. NPS, 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 of Zhejiang Normal University, Jinhua, China
- 2004 **Student Representative.** The 2004 Graduation Ceremony of Yiting High School, Yiwu, China

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## COMPUTER SKILLS

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

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## LANGUAGES and OTHERS

- Languages English (Fluent), Mandarin (Excellent), Wu Chinese (Native)
- Field Skills Wilderness First Aid (Level 2)
- Running Full Marathon (4h51min)

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## PROFESSIONAL REFERENCES

- **Ping Ding**, Professor  
Zhejiang University, College of Life Sciences  
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- **Stuart L. Pimm**, Doris Duke Chair of Conservation  
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Web: <http://nicholas.duke.edu/people/faculty/pimm>
- **Yixin Bao**, Professor  
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Web: <http://www.zjnu.edu.cn/cont/gcrc/byx.html>