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RESEARCH INTERESTS

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

POSITION

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

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

AWARDS AND HONORS

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

2012–2013 Joint-training Ph.D. Program, **China Scholarship Council**. (Scholarship)
2008–2013 Full Graduate Scholarship, **Zhejiang University**. (Scholarship)

2006–2007 Observations of the reproductive behavior of rodents. **Laboratory Open Program of Zhejiang Normal University**. (PI: 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**. (Participant: 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**. (Participant: 4/8)
- 2012–2015 Dynamic and stability of forest bird communities in fragmented habitats of Thousand Island Lake. **National Science Foundation of China**. (Participant: 6/10)
- 2012–2014 Sensitivity researches on habitat fragmentation of birds and reptiles in Thousand Island Lake. **National Science Foundation of China**. (Participant: 5/8)
- 2012–2014 Body size evolution and life history response of *Takydromus septentrionalis* on fragmented islands. **National Science Foundation of China**. (Participant: 3/7)
- 2008–2011 Demonstration project of resource monitoring technology for forest birds. **Special Topic of National Key Technology R & D Program of China**. (Participant: 3/5)

PUBLICATIONS [†]in Chinese (with English abstract)

Journal Articles

8. 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.
7. Shen G, Pimm SL, Feng C, Ren G, Liu Y, Xu W, Li J, Si X, Xie Z (2015) Climate change challenges the current conservation strategy for the giant panda. *Biological Conservation* 190: 43–50.
6. Goodale E, Ding P, Liu X, Martínez A, Si X, Walters M, Robinson SK (2015) The structure of mixed-species bird flocks, and their response to anthropogenic disturbance, with special reference to East Asia. *Avian Research* 6: 14.
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. [†]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. [†]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. [†]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. [†]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. [†]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. 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

4. Si X (2015) Young scientists need collaboration. *Zenodo*, doi: 10.5281/zenodo.22313.
3. [†]Si X (2014) Dry Tortugas National Park — Home of the sooty tern. *China Nature* 2014(6): 76–81.
2. [†]Si X (2014) Apply for the China Scholarship Council fund. *China Postgraduates* 2014(9): 58–59.
1. [†]Si X (2014) How to track the latest references. *China Postgraduates* 2014(6): 32–33.

PRESENTATIONS [†]in Chinese

Oral Presentations

15. 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. *The 100th ESA Annual Meeting*, 2015.08.09–14, Baltimore, Maryland, USA
14. [†]Si X, Ding P (2014) Turnover of breeding bird communities in Thousand Island Lake. *The 17th National Conference of the China Zoological Society*, 2014.11.17–20, Guangzhou, China
13. [†]Si X, Ding P (2014) Minimum trapping efforts on camera traps. *The 10th National Conference on Wildlife Ecology and Resource Conservation*, 2014.11.13–16, Guilin, China
12. [†]Si X, Ding P (2014) Biodiversity monitoring using camera traps. *The 6th Symposium of Biodiversity Conservation and Sustainable Development in Zhejiang*, 2014.10.24–25, Zhoushan, China
11. [†]Si X, Pimm SL, Russell GJ, Ding P (2014) Turnover of breeding bird communities on islands of an inundated lake. 2014.07.08, 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*, 2014.05.09–11, 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*, 2014.04.09–11, 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*, 2013.11.07–10, Hangzhou, China
7. Si X (2012) Biodiversity research in the Thousand Island Lake region. *The Pimm Group*, 2012.04.15, Duke University, Durham, North Carolina, USA

6. [†]Si X (2012) Introduction to camera traps. *Undergraduate Summer Zoology Field Practice*, 2012.07.29, 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*, 2011.08.07–08, 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*, 2010.11.04–06, 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*, 2010.06.21–22, 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*, 2009.11.18–23, 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*, 2009.08.04–06, 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*, 2015.01.08–12, 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*, 2014.11.13–16, Guilin, China
4. Si X, Pimm SL, Russell GJ, Ding P (2014) Breeding bird turnover on land-bridge islands. *The 26th International Ornithological Congress*, 2014.08.18–24, 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*, 2014.07.11–13, 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*, 2012.05.25, 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*, 2012.03.20–22, Cambridge, UK

TEACHING EXPERIENCE

- **Teaching Assistant.** *Undergraduate Summer Biology Field Practice*, Tianmushan and Thousand Island Lake, China: 2009, 2010, 2012, 2014, 2015

SPECIALIZED TRAINING

- 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)

- Ecological Society of America Annual Meeting: 2015(Baltimore, Maryland, USA)
- International Symposium on Modern Ecology: 2015(Tianjin)
- Biennial Conference of the International Biogeography Society: 2015(Bayreuth, Germany)
- International Ornithological Congress: 2014(Tokyo, Japan)
- EAFES International Congress: 2014(Haikou)
- National Conference of the China Zoological Society: 2014(Guangzhou)
- International Congress on Conservation Biology: 2013(Baltimore, Maryland, USA)
- Student Conference on Conservation Science: 2012(Cambridge, UK)
- 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

Member Ecological Society of America, International Society of Zoological Sciences, China Ornithological Society, Ecological Society of Zhejiang Province, Zhejiang Zoological Society

SYNERGISTIC ACTIVITIES

2015 **Session Presider.** Contributed Oral Session 66: *Community Pattern And Dynamics II*, the 100th Ecological Society of America Annual Meeting, Baltimore, Maryland, USA

- 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 AND LANGUAGE SKILLS

Statistical R, Mathematica, WinBUGS
Software L^AT_EX, Adobe Photoshop, MS Office Suite, EndNote, OS X iWork
Language English (Fluent), Mandarin Chinese (Excellent), Wu Chinese (Native)

PROFESSIONAL REFERENCES

Ping Ding, Professor, Dean of Department of Biology
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Web: <https://www.flmnh.ufl.edu/ordwaylab>

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