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RESEARCH INTERESTS

Biodiversity, camera traps, community ecology, 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.**, *Ecology*, Zhejiang University
2012–2013 **Visiting Student**, *Ecology*, Duke University
2004–2008 **B.S.**, *Biological Science*, Zhejiang Normal University

AWARDS AND HONORS

2015 **Academic Newcomer Award for Graduate in Ornithology**, China Ornithological Society
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/Triple A Graduate**, Zhejiang University
2011 **First-class Award of Honor for Graduate**, 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**, Zhejiang Normal University
2005 **Second-class Scholarship**, Zhejiang Normal University
2005 **Excellent League Member**, Zhejiang Normal University

GRANTS AND FELLOWSHIPS

2016–2018 Taxonomic and functional beta diversity of bird and mammal communities in fragmented habitats of the Thousand Island Lake. **National Nature Science Foundation of China.** (PI: 1/7) ¥240,000

2015	Postdoctoral Fellow Travel Grant, Zhejiang University . (Fellowship)	¥20,000
2012–2013	Joint Ph.D. Training Program, China Scholarship Council . (Scholarship)	¥130,000
2006–2007	Observations of the reproductive behavior of rodents. Laboratory Open Program of Zhejiang Normal University . (PI: 1/3)	¥800

Participated Projects (Selected)

2016–2019	The evolutionary adaptation and distribution of body size in animals and their effects on community assembly on land-bridge islands in the Thousand Island Lake. National Nature Science Foundation of China . (Participant: 2/10)	¥754,000
2015–2018	The small-island effect of amphibian and reptile assemblages in the Thousand Island Lake. National Nature Science Foundation of China . (Participant: 6/10)	¥840,000
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 Nature Science Foundation of China . (Participant: 4/8)	¥2,800,000
2012–2015	Dynamic and stability of forest bird communities in fragmented habitats of Thousand Island Lake. National Nature Science Foundation of China . (Participant: 6/10)	¥690,000
2012–2014	Sensitivity researches on habitat fragmentation of birds and reptiles in Thousand Island Lake. National Nature Science Foundation of China . (Participant: 5/8)	¥260,000
2012–2014	Body size evolution and life history response of <i>Takydromus septentrionalis</i> on fragmented islands. National Nature Science Foundation of China . (Participant: 3/7)	¥220,000
2008–2011	Resource monitoring technology of forest birds. National Key Technology R & D Program of China . (Sub-project; Participant: 3/5)	¥200,000

PUBLICATIONS [†]in Chinese (with English abstract)

Journal Articles

10. Si X, Baselga A, Leprieur F, Song X, Ding P. (2016) Selective extinction drives taxonomic and functional alpha and beta diversities in island bird assemblages. *Journal of Animal Ecology*, *accepted*.
9. Wilson MW, Chen X, Corlett RT, Didham RK, Ding P, Holt RD, Holyoak M, Jiang L, Hughes AC, Laurance WF, Liu J, Pimm SL, Robinson SK, Russo SE, Si X, Wilcove DS, Wu J, Yu M. (2016) Habitat fragmentation and biodiversity conservation: key findings and future challenges. *Landscape Ecology*, doi: 10.1007/s10980-015-0312-3.
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 countermeasures of China. *Biodiversity Science* 19: 303–310.

Popular Articles and Other Publications

7. [†]**Si X**. (2015) Wildlife in Gutianshan from camera traps. *China Nature* 2015(6): 42–45.
6. **Si X**. (2015) Young scientists need collaboration. *Journal of Brief Ideas*, doi: 10.5281/zenodo.22313.
5. [†]**Si X**. (2014) Dry Tortugas National Park — Home of the sooty tern. *China Nature* 2014(6): 76–81.
4. [†]**Si X**. (2014) Apply for the China Scholarship Council fund. *China Postgraduates* 2014(9): 58–59.
3. [†]**Si X**. (2014) How to track the latest references. *China Postgraduates* 2014(6): 32–33.
2. [†]**Si X**. (2014) *Species Turnover and Beta Diversity of Breeding Bird Communities in Fragmented Habitats*. PhD dissertation, Zhejiang University, Hangzhou.
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.

PRESENTATIONS [†]in Chinese

Oral Presentations

16. [†]**Si X**, Ding P. (2015) Taxonomic and functional beta-diversity patterns of breeding bird communities in fragmented habitats of the Thousand Island Lake. *The 13th China Ornithological Congress*, 2015.11.12–15, Hefei, China. (Plenary talk)
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 Ecological Society of America 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 *Undergraduate Summer Biology Field Practice*, Tianmushan and Thousand Island Lake, China:
Assistant 2009, 2010, 2012, 2014, 2015

PROFESSIONAL SERVICES AND AFFILIATIONS

Reviewer Austral Ecology, Ecography
Member Ecological Society of America, International Society of Zoological Sciences, China Ornithological Society, Ecological Society of Zhejiang Province, Zhejiang Zoological Society

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 Wilderness 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)

Biennial Conference of the International Biogeography Society: 2015 (Bayreuth, Germany)
China Ornithological Congress: 2009 (Harbin), 2011 (Lanzhou), 2013 (Hangzhou), 2015 (Hefei)
Cross-strait Symposium on Forest Dynamic Plots: 2009 (Zhaoqing), 2010 (Xiamen)
EAFES International Congress: 2014 (Haikou)
Ecological Society of America Annual Meeting: 2015 (Baltimore, Maryland, USA)
International Congress on Conservation Biology: 2013 (Baltimore, Maryland, USA)
International Ornithological Congress: 2014 (Tokyo, Japan)
International Symposium on Modern Ecology: 2015 (Tianjin)

Kingfisher Forum of Chinese Young Ornithologists Workshop: 2008 (Beijing), 2009 (Harbin), 2011 (Lanzhou), 2013 (Hangzhou)
National Conference of the China Zoological Society: 2014 (Guangzhou)
National Conference on Wildlife Ecology and Resource Conservation: 2011 (Jinhua), 2014 (Guilin)
National Symposium on the Conservation and Sustainable Use of Biodiversity in China: 2008 (Jinhua), 2010 (Xiamen)
Student Conference on Conservation Science: 2012 (Cambridge, UK)

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

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Web: <https://www.flmnh.ufl.edu/ordwaylab>

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