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RESEARCH INTERESTS

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

EDUCATION

2008–	Ph.D. Student	Ecology	Zhejiang University, China
2012–2013	Visiting Student	Ecology	Duke University, USA
2004–2008	B.S.	Biology	Zhejiang Normal University, China

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

GRANTS

Principal Investigator

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

Participant

2013–2017 **Effects of food web and its composition on bird and plant communities in subtropical fragmented habitats: a case study of land-bridge islands in Thousand Island Lake**. National Science Foundation of China. (Role: 4/8)

2012–2015 **Dynamic and Stability of forest bird community in fragmented habitats of Thousand Island Lake**. National Science Foundation of China. (Role: 6/10)

- 2012–2014 **Sensitivity research on habitat fragmentation of birds and reptiles in Thousand Island Lake.** National Science Foundation of China. (Role: 5/8)
- 2012–2014 **Body size evolution of island population of *Takydromus septentrionalis* and its responses on life history.** National Science Foundation of China. (Role: 3/7)
- 2012–2012 **Conservation project of *Leucopsar rothschildi* in Indonesia.** Ministry of Science and Technology of China. (Role: 14/23)
- 2010–2012 **Biodiversity census in Baishanzu National Nature Reserve (Plants, Mammals and Birds).** Baishanzu National Nature Reserve
- 2009–2011 **The effects of habitat fragmentation on life history traits of birds in Thousand Island Lake.** National Science Foundation of China
- 2009–2010 **Wild animal resource census in Wuxijiang Wetland Park, Zhejiang.** Forestry Administration of Qujiang District
- 2008–2011 **Resource monitoring technology and demonstration of forest bird species.** 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
- 2007–2009 **The effects of habitat fragmentation on diversity and community composition of birds in Thousand Island Lake.** National Science Foundation of China

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

- 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 review*.
- **Si X.**, Baselga A. & Ding P. Partitioning beta diversity reveals high turnover in nested assemblages of breeding birds on inundated land-bridge islands. *in preparation*.

Other Professional Publications

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 macro-fauna in different vegetation type, 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.

PRESENTATIONS

Oral Talks

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

Posters

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

TEACHING EXPERIENCE

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

POSTGRADUATE 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

PROFESSIONAL AFFILIATIONS

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

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)

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

COMPUTER SKILLS

Statistical R, Mathematica, WinBUGS

Others L^AT_EX, Adobe Photoshop, MS Office Suite, EndNote, OS X iWork

LANGUAGES and OTHERS

Languages English (Fluent), Mandarin (Excellent), Wu Chinese (Native)

Field Skills Wilderness First Aid (Level 2)

Running Full Marathon (4h51min)