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RESEARCH INTERESTS

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

POSITION

2014– **Postdoctoral Research Associate.** 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

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 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. Mammal and bird surveys using camera traps in Gutianshan 24-ha forest dynamic plot. *under review*.
- **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*, 2014(9): 58–59.
1. **Si X.** (2014) How to track the latest references. *China Postgraduates*, 2014(6): 32–33.

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

TEACHING EXPERIENCE

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

PROFESSIONAL TRAINING

- 2014 **Functional and phylogenetic diversity.** Nathan Swenson (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

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 Marathon (4h51min)

PROFESSIONAL REFERENCES

- **Ping Ding**, Professor
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