

## Eben Goodale

Professor

PI, Behavioral and Community Ecology, Conservation Biology

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### Biographical Narrative:

Eben Goodale is Professor, PI of a group focusing on animal ecology and conservation at the University of Guangxi, China. He is interested in the connection between three fields of ecology: behavioral ecology, community ecology and conservation biology. His research focuses on how behavior, particularly communication, affects the interactions between species, and how knowledge about such interactions can be integrated into conservation and management plans. He received his bachelor's from Harvard College (1997), his Ph.D. from the University of Massachusetts, Amherst (2005), and held postdoctoral fellowships at the Massachusetts Institute for Technology, the National Science Foundation (USA) and the University of California, San Diego / University of San Diego. Much of his work has been done on birds and in Sri Lanka, but he has also conducted bird research in India, Papua New Guinea (PNG), and China, and has also worked on communication in bees. For the two years before moving to Guangxi (2014), he was Associate Professor at the Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences. He has published 35 articles in ISI indexed journals, including *Trends in Ecology and Evolution*, *Proceedings of the Royal Society*, *Biology Letters*, *Animal Behavior*, *Behavioral Ecology*, *Diversity and Distributions* and *Biological Conservation*. He enjoys teaching, and has taught undergraduate and graduate courses in introductory biology, biodiversity, evolution and ecology at four institutions, and organized workshops in experimental design and statistics in Sri Lanka, PNG and China.

### Education:

- **University of Massachusetts, Amherst** (2005), Ph.D. Thesis title: "Interspecific communication in mixed-species bird flocks of a Sri Lankan rainforest." Major advisors: Bruce E. Byers and Donald E. Kroodsma. 4.0 GPA.
- **Harvard College** (1997), B.A., magna cum laude in Biology.

### Teaching and Research Positions:

- Professor, College of Forestry, **University of Guangxi** (UG, 10/14-present). Principal Investigator of the Behavioral & Community Ecology, Conservation Biology Group, with a 5-year contract.
- Associate Professor, **Xishuangbanna Tropical Botanical Garden (XTBG), Chinese Academy of Sciences** (9/12-9/14). Associated with the Ecology and Evolution of Plant-Animal Interactions Group.

- Visiting Scholar, **University of California, San Diego** (1/10-7/12; Research Associate, **University of San Diego** (2/10-6/12). Studied interspecific information transfer among pollinating insects in James Nieh's lab.
- Lecturer and Senior Seminar Mentor, **University of San Diego** (1/10-6/12). Taught a survey course on the biology of organisms (BIOL 221, lecture and lab), a course in the principles of environmental science (BIOL 102), and a lab in cellular biology (BIOL 225). Also mentored students on their independent research project (BIOL 495).
- Lecturer, **University of San Diego, California** (10/10-12/10; 10/11-12/11). Taught two semesters of UCSD's introductory course in ecology, behavior and evolution (BILD 3).
- Postdoctoral Fellow, **National Science Foundation USA** (NSF) International Research Fellowship Program (1/07-4/07; 8/07-8/08; 1/09-4/09; 9/09-12/09). Studied developmental, cognitive and functional aspects of vocal mimicry in mixed-species bird flocks of Sri Lanka and Papua New Guinea.
- Research Associate, **University of Massachusetts, Amherst** (1/09-12/09). Affiliated with Jeffrey Podos' lab; studied cultural evolution in the songs of Darwin's finches.
- Adjunct Faculty, **University of New Haven** (8/08-12/08). Taught an undergraduate course (BIO 320) and a graduate course (ENV 601) in the principles of ecology, with laboratory.
- Lecturer, **University of Massachusetts, Amherst** (8/08-12/08). Presented 13 lectures on evolution for the large introductory lecture class for non-majors, "Social Issues in Biology" (BIO 105).
- Visiting Lecturer, **University of Colombo** (1/07-3/07; 3/08-5/08). Taught 10 hours of lectures on experimental design and statistical analysis and an additional five hours of lectures on behavioral ecology.
- Instructor, **Yale School for Forestry and Environmental Sciences** (8/07). Designed and conducted lab demonstration on freshwater ecology and biodiversity for their Masters orientation program.
- Postdoctoral Fellow, **MIT Media Lab** (8/06-11/06; 5/07-7/07)  
Worked with Dale Joachim on a NSF-sponsored program using cell phone technology to remotely conduct playback experiments
- Consultant, **Yale School Forests** (9/05-7/07).  
Designed and conducted the first bird survey of the actively managed Yale Myers Forest.
- Research Associate, **Field Ornithology Group of Sri Lanka** (FOGSL; 5/05-present).  
Responsible for planning research agenda, finding funding, and supervising students.
- Teaching Assistant, **University of Massachusetts, Amherst** (1/05-5/05; 9/02-5/03).  
Designed and taught laboratory curriculum for ornithology (BIO 544) and introductory biology labs (BIO 100 & 101).

### Scholarships and Fellowships:

- **1000 Plan Recruitment Program of Global Experts**. A national level Chinese grant for recruiting international scientists (awarded 3/13).
- **NSF International Research Postdoctoral Fellowship** (awarded 8/06, for two years).
- **American Institute of Indian Studies**, Senior Fellowship (awarded 10/05, for four months), to study the effect of land-use on mixed-species flocks of India.

- **NSF Graduate Fellowship** (awarded 4/00, for three years).
- **Fulbright Junior Scholarship** (awarded 9/97, for one year).

#### Grants:

- **NSF Conference Symposium Support Grant** (participant; with Katie Sieving, U. Florida, PI; \$13,000 to support ‘Mixed-species animal groups’ symposium at Ecosummit, awarded 4/16).
- **National Science Foundation of China** (\$64,500 in research funds, for a project sampling mixed-species flocks in Guangxi and Yunnan, awarded 8/15).
- **University of Guangxi, Special Talent Recruitment Program** (\$682,000 in start-up funds, awarded 6/14).
- **1000 Plan Recruitment Program of Global Experts** (\$327,000 in research funds, awarded 3/13; some funds never allocated due to moving positions)
- **San Diego Foundation Blasker Science and Technology Grant** (\$35,916 awarded 5/11)
- **Conservation, Food & Health Organization** (\$12,935 originally awarded to FOGSL 6/06, for twelve months; \$12,022 funded for a second year 11/07), to study the effect of land-use on flocks of Sri Lanka.
- **NSF International Research Postdoctoral Fellowship** (\$48,100 in research funds, awarded 8/6/06).
- **NSF Doctoral Dissertation Improvement Grant** (\$9,684 awarded 7/03).
- **American Ornithologists Union, Student Research Grant** (\$2,500 awarded 6/03).
- **Sigma-Xi Grant-in-Aid-of-Research** (\$1000 awarded 6/03 and \$500 12/01).
- **Woods Hole Scholarship for Field Research** (\$3,200 awarded 3/02).
- **American Ornithologists Union, Maria Brady Tucker Travel Award** (\$1,200 awarded 6/02).

#### Peer-Reviewed Scientific Publications:

- 49) Duguid, M., Morrell, E. H., Goodale, E., and Ashton, M. S. 2016. Changes in breeding bird abundance and species composition over a 20 year chronosequence following shelterwood harvests in oak-hardwood forests. **Forest Ecology and Management** 376: 221-230.
- 48) Pagani-Nuñez, E., Barnett, C. A., Gu, H. and Goodale, E. 2016. The need for new categorizations of dietary specialization incorporating spatio-temporal variability of individual diet specialization. **Journal of Zoology** 300: 1-7.
- 47) Dayananda, S. K., Goodale, E., Liu, J.-J., Mammides, C., Pasion, B., Quan, R.-C., Slik, J. W. F., Sreekar, R., Tomlinson, K. W., and Yasuda, M. 2016. Effects of forest fragmentation on nocturnal birds: a case study from Xishuangbanna, China. **Zoological Research** 37: 151-158.
- 46) Pagani-Nuñez, E., Chao, H., Li, B., Li, M., He, R., Jiang, A., and Goodale, E. 2016. The breeding ecology of the barn swallow *Hirundo rustica gutturalis* in South China. **Journal of Tropical Ecology** 32: 260-263
- 45) Abeysinghe, K., Ao, M., Goodale, E., Yang, X.-D., Xu, X.-H., Xu, Z.-D., Qiu, G.-L. 2016. Mercury and selenium in arthropods and their bioaccumulation across food webs. **Chinese Journal of Ecology** 35: 1031-1037.
- 44) Mammides, C., Goodale, U. M., Corlett, R. T., Chen, J., Bawa, K. S., Hariya, H., Jarrad, F., Primack, R. B., Ewing, H., Xia, X. and Goodale, E. 2016. Increasing

- geographic diversity in the international conservation literature: a stalled process? **Biological Conservation** 198: 78-83.
- 43) Sreekar, R., Huang, G., Yasuda, M., Quan, R.-C., Goodale, E., Corlett, R. T. and Tomlinson, K. W. 2016. Can rubber monocultures be made more hospitable to birds? The effects of forests, roads and mistletoes. **Scientific Reports** 6: 21822.
  - 42) Mammides, C., Kounnamas, C., Goodale, E., and Kadis, K. 2016. Do unpaved, low-traffic roads affect bird communities? **Acta Oecologica** 71: 14-21.
  - 41) Quan, R.-C., Li, H., Wang, B. and Goodale, E. 2015. The relationship between defecation and feeding in nestling birds: observational and experimental evidence. **Frontiers in Zoology** 12:21.
  - 40) Yang, H., Harrison, R., Yi, Z.-F., Goodale, E., Zhao, M.-X., and Xu, J.-C. 2015. Changing perceptions of forest value and attitudes toward management of a recently established nature reserve: a case study in southwest China. **Forests** 6: 3136-3164.
  - 39) Goodale, E., Ding, P., Liu, X., Martínez, A., Walters, M. & Robinson, S. K. 2015. The structure of mixed-species bird flocks, and their response to anthropogenic disturbance, with special reference to East Asia. **Avian Research** 6:14.
  - 38) Mammides, C., Chen, J., Goodale, U. M., Kotagama, S. W., Sidhu, S. & Goodale, E. 2015. Does mixed-species flocking influence how birds respond to a gradient of land-use intensity? **Proceedings of the Royal Society B, Biological Sciences** 282: 20151118.
  - 37) Sreekar, R., Goodale, E., and Harrison, R. D. 2015. The use of flight initiation distance as index of hunting pressure: a case study in Xishuangbanna, southwest China. **Tropical Conservation Science** 8: 505-512.
  - 36) Sreekar, R., Srinivasan, U., Mammides, C., Chen, J., Goodale, U.M., Kotagama, S. W., Sidhu, S. and Goodale, E. 2015. The effect of land-use on the diversity and mass-abundance relationships of understory avian insectivores in Sri Lanka and southern India. **Scientific Reports** 5: 11569.
  - 35) Gu, H., Goodale, E. & Chen, J. 2015. Emerging directions in the study of the ecology and evolution of plant-animal mutualistic networks: a review. **Zoological Research** 36: 65-71.
  - 34) Gu, H., Goodale, E. & Chen, J. 2015. Does the role that frugivorous bird species play in seed dispersal networks influence their rate of evolutionary divergence? **Global Ecology and Conservation** 3: 121-128.
  - 33) Sreekar, R., Huang, G., Zhao, J.- B., Pasion, B. O., Yasuda, M., Zhang, K., Peabotuwage, I., Wang, X., Quan, R.- C., Slik, F., Corlett, R. T., Goodale, E. & Harrison, R. D. 2015. The use of species-area relationships to partition the effects of hunting and deforestation on bird extirpations in a fragmented landscape. **Diversity and Distributions** 21: 441-450.
  - 32) Duan, Q., Goodale, E. & Quan R.-C. 2014. Bird fruit preferences reflect the frequency of fruit colours in tropical Asia. **Scientific Reports** 4: 5627.
  - 31) Zhang, W., Goodale, E. & Chen, J. 2014. How contact with nature affects children's biophilia, biophobia and conservation attitude in China. **Biological Conservation** 177: 109-116.
  - 30) Goodale, E., Kim, E., Nabors, A., Henrichon, S. & Nieh, J. C. 2014. The innate responses of bumble bees to flower patterns: separating the nectar guide from the

- nectary changes bee movements and search time. **Naturwissenschaften** 101: 523-526.
- 29) Zhang K., Woan, T. S., Jie, L., Goodale, E., Kitajima, K. & Harrison, R. D. 2014. Shifting baselines on a tropical forest frontier: Extirpations drive declines in local ecological knowledge. **PLOS ONE** 9: e86598.
  - 28) Goodale, E., Ratnayake, C. P. & Kotagama, S. W. 2014. Vocal mimicry of alarm-associated sounds by a drongo elicits flee and mobbing responses from other species that participate in mixed-species bird flocks. **Ethology** 120: 266-274.
  - 27) Goodale, E., Ratnayake, C. P. & Kotagama, S. W. 2014. The frequency of vocal mimicry varies due to proximity to nest and nesting stage in a passerine bird. **Behaviour** 151: 73-88.
  - 26) Goodale, E., Kotagama, S. W., Raman, T. R. S., Sidhu, S., Goodale, U. M., Parker, S. & Chen, J. 2014. The response of birds and mixed-species bird flocks to human-modified landscapes in Sri Lanka and southern India. **Forest Ecology and Management** 329: 384-392.
  - 25) Jayarathna, A., Kotagama, S. W. & Goodale, E. 2013. The seasonality of mixed-species flocking in a Sri Lankan rainforest, in relation to the breeding of the nuclear species, the Orange-billed Babbler *Turdoides rufescens*. **Forktail** 29: 138-139.
  - 24) Goodale, E. & Nieh, J. C. 2012. Public use of olfactory information associated with predation in two species of social bees. **Animal Behaviour** 84: 919-924.
  - 23) Sridhar, H., Srinivasan, U., Askins, R. A., Canales Delgadillo, J. C., Chen, C.-C., Ewert, D. N., Gale, G. A., Goodale, E., Gram, W. K., Hart, P. J., Hobson, K. A., Hutto, R. L., Kotagama, S. W., Knowlton, J., Lee, T. M., Munn, C. A., Nimnuan, S., Nizam, B. Z., Péron, G., Robin, V. V., Rodewald, A. D., Rodewald, P. G., Thomson, R. L., Trivedi, P., Van Wilgenburg, S. L. & Shanker, K. 2012. Positive relationships between association strength and phenotypic similarity characterize the assembly of mixed-species bird flocks globally. **American Naturalist** 180: 777-790.
  - 22) Goodale, E., Goodale, U. & Mana, R. 2012. The role of toxic pitohuis in mixed-species flocks of lowland forest in Papua New Guinea. **Emu – Austral Ornithology** 112: 9-16.
  - 21) Beauchamp, G. & Goodale, E. 2011. Plumage mimicry in avian mixed-species flocks: more or less than meet the eye? **Auk** 128: 487-496.
  - 20) Sidhu, S., Raman, T. R. S. & Goodale, E. 2010. Effects of plantations and home-gardens on tropical forest bird communities and mixed-species bird flocks in the southern Western Ghats. **Journal of the Bombay Natural History Society** 107: 91-108
  - 19) Goodale, E. & Ruxton, G. D. 2010. Antipredator benefits from heterospecifics. In: **Encyclopedia of Animal Behavior** (Breed, M and Moore, J., editors). Academic Press, Oxford.
  - 18) Goodale, E. & Podos, J. 2010. Persistence of song types in Darwin's finches, *Geospiza fortis*, over four decades. **Biology Letters** 6: 589-592.
  - 17) Goodale, E., Beauchamp, G., Magrath, R. D., Nieh, J. C. & Ruxton, G. D. 2010. Interspecific information transfer influences animal community structure. **Trends in Ecology and Evolution** 25: 354-361.

- 16) Satischandra, S. H. K., Kodituwakku, P., Kotagama, S. W. & Goodale, E. 2010. Assessing “false” alarm calls by a drongo (*Dicrurus paradiseus*) in mixed-species bird flocks. **Behavioral Ecology** 21: 396-403.
- 15) Goodale, E & Beauchamp, G. 2010. The relationship between leadership and gregariousness in mixed-species bird flocks. **Journal of Avian Biology** 41: 99-103.
- 14) Ratnayake, C. P., Goodale, E. & Kotagama, S. W. 2010. Two sympatric species of passerine birds imitate the same raptor calls in alarm contexts. **Naturwissenschaften** 97: 103-108.
- 13) Goodale, E., Nizam, B. Z., Robin, V. V., Sridhar, H., Trivedi, P., Kotagama, S. W., Padmalal, U. K. G. K., Perera, R., Pramod, P. & Vijayan, L. 2009. Regional variation in structure and composition of mixed-species bird flocks of the Western Ghats and Sri Lanka: a review. **Current Science** 97: 648-663.
- 12) Goodale, E., Lalbhai, P., Goodale, U. M., & Ashton, P. M. S. 2009. The effect of shelterwood cuts and crown thinnings on the abundance and distribution of birds in a southern New England forest. **Forest Ecology and Management** 258: 314-322.
- 11) Goodale, E. & Kotagama, S.W. 2008. Responses to conspecific and heterospecific alarm calls in mixed-species bird flocks of a Sri Lanka rainforest. **Behavioral Ecology** 19: 887-894.
- 10) Goodale, E. & Kotagama, S.W. 2007. Some observations on the geographic variation of mixed-species bird flocks in Sri Lanka. **Journal of the Bombay Natural History Society** 104: 96-98.
- 9) Joachim, D. & Goodale, E. 2007. On the use of cellular telephony for audio interaction with animals. **Biology Letters** 3: 603-606.
- 8) Sathischandra, S.H.K., Kudavidanage, E.P., Kotagama, S.W. & Goodale, E. 2007. The benefits of joining mixed-species flocks for a sentinel nuclear species, the Greater Racket-tailed Drongo *Dicrurus paradiseus*. **Forktail** 23: 145-148.
- 7) Goodale, E. & Kotagama, S.W. 2006. Vocal mimicry by a passerine bird attracts other species involved in mixed-species flocks. **Animal Behaviour** 72: 471-477.
- 6) Goodale, E. & Kotagama, S.W. 2006. Context-dependent mimicry by a passerine bird. **Proceedings of the Royal Society B, Biological Sciences** 273: 875-880.
- 5) Goodale, E. & Kotagama, S.W. 2005. Alarm calling in Sri Lankan mixed-species bird flocks. **Auk** 122: 108-120.
- 4) Goodale, E. & Kotagama, S.W. 2005. Testing the roles of species in mixed-species bird flocks of a Sri Lankan rainforest. **Journal of Tropical Ecology** 21: 669-676.
- 3) Jayarathna, A., Caldera, P. & Goodale, E. 2005. Observations on the nesting and parental behaviour of the Ashy-headed Laughing Thrush (*Garrulax cinereifrons*). **Forktail** 21: 163-164.
- 2) Kotagama, S.W. & Goodale, E. 2004. The composition and spatial organization of mixed-species flocks in a Sri Lankan rainforest. **Forktail** 20: 63-70.
- 1) Kroodsmma, D.E., Byers, B.E., Goodale, E., Johnson, S. & Liu, W. 2001. Pseudoreplication in playback experiments, revisited a decade later. **Animal Behaviour** 61: 1029-1033.

### Manuscripts In Press / Revision / Review:

- Goodale, E., Beauchamp, G. and Ruxton, G. D. In press (to be published June, 2017). Mixed-species animal groups: behavior, community ecology and conservation. **Academic Press.**
- Abeysinghe, K., Yang, X.-D., Goodale, E., Anderson, C. W. N., Bishop, K., Cao, A., Feng, X., Liu, S., Mammides, C., Meng, B., Quan, R.-C, Sun, J., and Qiu, G. In press. Total and methyl mercury concentrations over a gradient of contamination in earthworms living in rice paddy soil. **Environmental Toxicology and Chemistry**
- Perera, M. P., Kotagama, S. W., Goodale, E., and Kathriarachchi, H. S. In review (revision submitted August 2016). What happens when the nuclear species is absent?: Observations of mixed-species bird flocks in the Hiyare Forest Reserve in Sri Lanka. **Forktail**
- Jiang, A., Jiang, D., Goodale, E., Zhou, F., Wen, H. In review (revision submitted August 2016). Evidence from videorecordings about interspecific feeding of nestling birds: an observation of feeding of Crested Bunting *Melophus lathami* nestlings by Olive-backed Sunbird *Cinnyris jugularis* from southern China. **Forktail**
- Gu, H. Chen, J., Ewing, H., Liu, X., Zhao, J., and Goodale, E. In review (revision submitted November 2016). Heterospecific attraction to the vocalizations of birds in fruiting trees: a mechanism of nestedness in seed dispersal networks? **Behavioral Ecology and Sociobiology.**
- Jiang, A., Jiang, D., Wen, Y. and Goodale, E. In review (submitted November 2016). Nest predation on birds that nest in rock cavities in a tropical limestone forest of southern China. **Global Ecology and Conservation.**
- Mammides, C., Chen, J., Goodale, U. M., Kotagama, S. W., and Goodale, E. In review (submitted November 2016). Measurement of species associations in mixed-species bird flocks across environmental and human disturbance gradients. **Oecologia.**
- Sreekar, R., Corlett, R., Dayananda, S., Goodale, U. M., Kilpatrick, A., Kotagama, S. W., Koh, L. P., and Goodale, E. In review (submitted November 2016). Climate drives species turnover in tropical birds at small scales. **Biology Letters.**

### Selected Popular, Non Peer-Reviewed Publications:

- Sreekar, R., Dayananda, S. K., Zhao, J.-B., Gu, B., Li, Q., Wang, X., and Goodale, E. 2014. First record of Pin-tailed Parrotfinch *Erythrura prasina* from China. **BirdingASIA** 22:116-117.
- Goodale, E. 2013. Birds of South Asia (Book Review). **Emu – Austral Ornithology** 113: 397-398.
- Ratnayake, C. P., Goodale, E. and Kotagama, S. W. 2013. Differential ‘crack’ calls in a tropical magpie: Sri Lanka magpie (*Urocissa ornata*). **Siyoth** 3: 41-49.
- Robinson, J. W., Nieh, J. C. and Goodale, E. 2012. Testing honey bee avoidance of predators: teaching the scientific process through an engaging field experiment. **American Biology Teacher** 74: 452-457.
- Goodale, E. and Sridhar, H. 2010-2015. Mixed-species bird flocks: a bibliography. Internet database at <https://sites.google.com/site/mixedspeciesbirdflocks/>.

- Goodale, E., Salgado, A. & Kotagama, S. W. 2008. Birds of a different feather. **Natural History** 117: 24-28.
- Goodale, E., Caldera, P. & Kotagama, S. W. 2006. Twenty-five years of research on the mixed-species bird flocks of Sri Lanka. **Siyoth** 1: 22-28.
- Goodale, E., Caldera, P. & Jayarathna, A. 2004. The sounds of Sinharaja. Audio CD. **Field Ornithology Group of Sri Lanka**, Colombo, Sri Lanka.
- Goodale, E. 2002. A journey by bus. Pp. 207–210 in: Excursions and explorations, cultural encounters between Sri Lanka and the United States (Jayatilaka, T., ed.). **The United States – Sri Lanka Fulbright Commission**, Colombo, Sri Lanka.

#### Publicity in Popular Press about Research:

- **New York Times** (2010): “For some birds it’s not always the same old song”. <http://www.nytimes.com/2010/04/20/science/20obsong.html>
- **Conservation Magazine** (2008): “Collect calls: cell phones eavesdrop on birds”. <http://www.conservationmagazine.org/2008/07/collect-calls/>
- **American Scientist** (2006): “Bird mimics other species in the Sri Lankan rainforest”. <http://www.sigmaxi.org/about/news/archive.71.shtml> (also published as *American Scientist*, 94: 289).

#### Presentations at Scientific Meetings:

From 2006-2016, 21 invited talks at the following venues:

Barnard College • Central Connecticut State Univ. • Environmental Leadership and Training Initiative (moderator; international conference held in Sri Lanka) • Fifth Symposium on Tropical Forest Ecology (keynote speaker for conference held in Hainan, China) • Florida International University • Indian Inst. of Science • Natl. Centre for Biol. Sciences (India) • Natl. Univ. of Singapore • Natl. Forestry Symposium (Sri Lanka) • Nature Conservation Fnd. (India) • San Diego State Univ. • School of Natural Resources and Environment, Univ. of Michigan • Sun Yat-sen University (Guangzhou, China) • Texas Tech Univ. • Univ. of California, San Diego • Univ. of Florida • Univ. of San Diego • Univ. of New England • Xishuangbanna Tropical Botanical Garden • Yale Forest Lecture Series (2 talks)

From 1998-2016, 17 presentations, 4 posters, and 1 workshop at the following meetings:

American Ornithological Union (3 talks, moderator once, 1 poster) • Animal Behavior Soc. (1 talk, 2 posters) • Association for Tropical Biology and Conservation, Asian Chapter (3 talks) • Botanical Society of America (1 talk) • Center for Tropical Forest Science (1 talk) • Chinese Ornithological Conference (1 talk) • Ecosummit (co-organized symposium on ‘Mixed-species Animal Groups’ and gave the keynote talk) • International Conference on Mercury as a Global Pollutant (1 workshop) • International Soc. for Behavioral Ecology (2 talks, moderator once, 1 poster) • Rockefeller Univ. Bird Song Workshop (2 talks) • Soc. for Conservation Biology (1 talk) • Soc. for Integrative and Comparative Biology (1 talk)



### Membership in Scientific Organizations:

International Society for Behavioral Ecology (since 2014) • Association for Tropical Biology and Conservation (since 2013) • Ecological Soc. of America (2010-2012) • Soc. of Conservation Biology (since 2008-2012) • Oriental Bird Club (since 2004) • Sigma-Xi (since 2003) • American Ornithologists Union (since 2000) • Animal Behavior Soc. (2000-2012) • FOGSL (life member, since 1996)

### Reviews for and Service to Journals:

- Associate Editor, Forktail (5/07–8/14).
- Journals reviewed for (# of reviews): Acta Ethologica (1) • American Naturalist (1) • Animal Behaviour (10) • Apidologie (1) • Auk (4) • Avian Research (1) • Behaviour (1) • Behavioral Ecology (6) • Behavioral Ecology and Sociobiology (5) • Bioacoustics (1) • Biodiversity and Conservation (1) • Biological Conservation (3) • Biological Reviews (1) • Biology Letters (2) • Condor (3) • Ecology (2) • Ecography (1) • Ecosphere (1) • Emu – Austral Ornithology (1) • Ethology (3) • Florida Field Naturalist (1) • Forest Ecology and Management (1) • Forktail (4) • Frontiers in Ecology and the Environment (1) • Global Ecology and Conservation (1) • J. of Animal Ecology (2) • J. of Avian Biology (2) • J. of Comparative Psychology (1) • J. of Field Ornithology (4) • J. of Land Use Policy (1) • J. of Ornithology (1) • J. of Sustainable Forestry (1) • J. of Tropical Ecology (2) • Mammalia (1) • Naturwissenschaften (1) • Ornis Fennica (1) • Proceedings of the Royal Society (3) • Wilson J. of Ornithology (1) • Zoological Research (1)
- Grants reviewed for (# of reviews): Human Frontier Science Program (1), National Science Foundation International Research Postdoctoral Program (1).

### Advice on Post-Graduate Education and Student Theses:

- Postdoctoral Fellows at Guangxi University:
  - 1) Emilio Pagani-Núñez, 3/15-10/16
  - 2) Myung-bok Lee, 6/15-present.
- Postdoctoral Fellows at XTBG:
  - 1) Christos Mammides, 1/14-12/15 (co-supervised with Prof. Chen Jin).
- PhD students at Guangxi University:
  - 1) Jiang Demeng (9/16-present)
- Masters Students at Guangxi University:
  - 1) He Ruchuang (9/15-present)
  - 2) Zhou Wenjing (9/15-present)
  - 3) He Chao (9/16-present)
- Masters Students at XTBG:
  - 1) Gu Hao, “A network perspective: do super-generalists speciate less than generalists and specialists?”, 11/12-12/14 (co-supervised with Prof. Chen Jin).
  - 2) Salindra Dayananda, “Understanding how the spatial distribution of forest fragments influences birds and amphibians in a deforested landscape of southern tropical China”, (co-supervised with Prof. Quan Ruichang). 9/13-6/16.

- 3) Kasun Abeysinghe, “Mercury toxicity in a contaminated terrestrial landscape of inland China”, 9/13-present (co-supervised with Prof. Yang Xiaodong and Prof. Qiu Guangle of the Institute of Geochemistry, CAS).
- External reviewer for Sneha Vijayakumar’s Ph.D. dissertation at the Indian Institute of Science (Kartik Shanker, advisor). 3/15.
  - External reviewer for Tuomo Jaakkonen’s Ph.D. dissertation at University of Oulu (Jukka Forsman, advisor). 4/14.
  - External reviewer for Bransilav Igc’s Ph.D. dissertation at Australian National University (Robert Magrath, advisor). 10/13.
  - Informal External Advisor to Chaminda P. Ratnayake, University of Colombo, Ph.D. program. Thesis title: “Ecology and behaviour of the Sri Lanka Blue Magpie (*Urocissa ornata*).” Graduated 2010.
  - External Advisor to S. Harsha K. Satischandra, University of Sabaragamuwa, Masters in Science program. Thesis title: “Evaluating false alarm calls in the Greater Racket-tailed Drongo (*Dicrurus paradiseus*).” Graduated 2009.
  - Informal External Advisor to Punit Lalbhai, Yale School of Forestry and Environmental Science. Thesis title: “The effect of shelterwood cuts and crown thinnings on the abundance and distribution of birds in a southern New England forest.” Graduated 2007.
  - External Advisor to S. Harsha K. Satischandra, University of Sabaragamuwa, Undergraduate thesis. Thesis title: “The foraging ecology of the Greater Racket-tailed Drongo (*Dicrurus paradiseus*).” Graduated 2006.

### Courses Taught at University Level:

#### At Guangxi University:

- Seminar in Statistics and Experimental Design (Fall 2016; graduate)
- Advanced Statistics (Spring 2016; 2 lectures only)
- Advances in Ecology and Conservation (Fall 2015; undergraduate; co-taught)
- Principles of Ecology (Spring 2015; undergraduate)

#### At the University of San Diego:

- Environmental Biology (Spring 2012; undergraduate)
- The Biology of Organisms (Fall 2010; undergraduate)
- Senior Seminar (Fall 2009; undergraduate thesis students)

#### At the University of California, San Diego:

- Introduction to Organismic and Evolutionary Biology (Fall 2010, Fall 2011; undergraduate)

#### At the University of New Haven:

- Ecology with Laboratory (Fall 2008; undergraduate and graduate tracks)

#### At the University of Massachusetts, Amherst

- Biology of Social Issues (Fall 2008; undergraduate; co-taught)

### Faculty Experience in Fieldcourses:

- Advanced Course in Ecology and Conservation at Xishuangbanna Tropical Botanical Garden (participated in 1.5 month course in 2012, 2013, 2014, giving lectures in bird ecology and statistics).

### Voluntary Educational Activities:

- Project leader (8/11-12/11), high school outreach program, entitled “Pollinators and predators” funded by the San Diego Foundation. Introduced students to the scientific process through field trips, lectures, dissections and small experiments with bees.
- Workshop organizer, with Uromi M. Goodale, and lecturer for: two-session program introducing R (Divine Word University, 9/09), two-day program on the research process (the National Research Institute, Papua New Guinea, 9/09, and the Binatang Research Center, 12/09), two-day program on statistics (University of Colombo, 3/09), one-day program on career development (Port Moresby, PNG, 12/07), one-day program on proposal writing (University of Colombo, 9/07), and a four-day program on scientific analysis and writing (FOGSL, 1/07).
- Project leader and lecturer (12/06 – 1/09), for secondary school education program by the Field Ornithology Group of Sri Lanka, and funded by the Conservation, Food and Health Foundation, that visited 23 schools and took them on visits to nearby rainforests.
- Participant (1/08-3/08) in the project “Empowering Students in Ecology, Music, and Computer Science through Active Participation in an Elementary Bird Song Curriculum”, funded by the Lindbergh Foundation; prepared podcasts for elementary grade school children to get them interested in birds and animal behavior.
- Guest lectures given: FOGSL general meeting (3/07, 10/04), Sri Lanka Fulbright Commission (9/04), Biology 521 / Community Ecology, University of Massachusetts, Amherst (5/03); Undergraduate Ornithology, University of Colombo (3/07, 2/07, 8/02); Masters Program in Wildlife Ecology, University of Peradeniya (7/01 and 9/98).
- New Haven Science Fair Mentor, for two high-school students (10/05–5/06). The students won the first prize from the New Haven Bird Club and were Finalists and Medalists at the Connecticut Science Fair.
- Fieldtrip organizer and demonstrator of research activities on mixed-species bird flocks in the Sinharaja World Heritage Reserve: FOGSL (9/04, 8/03, and 7/03), Masters Program in Wildlife Ecology, University of Colombo (7/04 and 7/02), Undergraduate Ornithology, University of Colombo (8/03).

### Technical Skills:

- Bird identification / banding. Three years of experience using mist nets in Sri Lanka with over 150 birds captured. Twenty years experience with bird identification in the field.
- Sound recording. Fifteen years of using shotgun and parabolic microphones, and mono and stereo tape recorders, both analog and digital.

- Sound analysis. Extensive experience using Signal, Avisoft and Raven.
- Radio-telemetry. Tracked five Greater Racket-tailed Drongos (*Dicrurus paradiseus*) over a period of four months in the Sinharaja World Heritage Reserve, Sri Lanka.
- Experience in a bee communication lab. Four semesters experience of running olfactory choice experiments with honeybees (*Apis mellifera*) and bumblebees (*Bombus impatiens*), in James Nieh's lab at UCSD.
- Statistics. Two semesters of 500 level classes in the Department of Statistics, University of Massachusetts, Amherst. Extensive experience using R, SAS, and SYSTAT.
- Experience with other computer programs. Moderate experience with ArcView GIS software and C++ programming.
- Experience with teaching technology: Two semesters' experience with WebCT / Blackboard web technology as well as with clickers (specifically, iclickers).
- Languages. Fluent in English; conversant in Sinhala and Mandarin. Limited experience in Tok Pisin, French, Italian, Tamil and Latin.