

Haw Chuan Lim*Smithsonian Institution, National Museum of Natural History**Dept. of Vertebrate Zoology**Washington, D.C., 20560-0188. Email: limhc@si.edu, Tel: 202-633-9075***EDUCATION**

- 2010 **Ph.D.** Dept. of Biological Sciences & Museum of Nat. Sci., Louisiana State University
Dissertation: Evolutionary dynamics of bird populations in Southeast Asia. Advisor:
Dr. Frederick Sheldon
- 2002 **M.S.** Dept. of Biological Sciences, National University of Singapore
Thesis: Resource use of birds in urban environments. Advisor: Dr. Navjot Sodhi
- 1996 **B. Environmental Science**, University of Wollongong, Australia
Final year project: Large-scale study of reproductive success of *Rhipidura leucophrys*
in Australia. Advisor: Dr. Richard Major

PROFESSIONAL EXPERIENCE

- 2013-present Smithsonian Institution Molecular Evolution Postdoctoral Fellow
- 2010-2013 Postdoctoral Research Associate. Department of Entomology, University of Illinois
- 2004-2010 Teaching Assistant (Dept. of Biological Sciences) and Curatorial Assistant (Museum of
Nat. Sci.), Louisiana State University
- 2003 Research Associate, National University of Singapore. Research project: Impact of land
reclamation on Singapore's coastal fauna and flora.
- 1997-99 Senior Scientific Officer, Sungei Buloh Wetland Reserve, Singapore

SELECTED PUBLICATIONS

- Gawin, D. F., M. A. Rahman, M. F. S. Ramji, B. T. Smith, **H. C. Lim**, R. G. Moyle, and F. H. Sheldon.
2014. Patterns of avian diversification in Borneo: The case of the endemic Mountain Black-eye
(*Chlorocharis emiliae*). *Auk* 131:86-99.
- Sheldon, F. H., C. H. Oliveros, S. S. Taylor, B. McKay, **H. C. Lim**, M. A. Rahman, H. Mays, and R. G.
Moyle. 2012. Molecular phylogeny and insular biogeography of the lowland tailorbirds of
Southeast Asia (Cisticolidae: *Orthotomus*). *Molecular Phylogenetics and Evolution* 65:54-63.
- Chong, K. Y., S. Teo, B. Kurukulasuriya, Y. F. Chung, S. Rajathurai, **H. C. Lim**, and H. T. W. Tan.
2012. Decadal changes in urban bird abundance in Singapore. *Raffles Bulletin of Zoology Supp.*
No. 25:181-188
- Moyle, R. G., S. S. Taylor, C. H. Oliveros, **H. C. Lim**, et al. 2011. Diversification of an insular Southeast
Asian clade: Phylogenetic relationships of the Spiderhunters (Aves: Nectariniidae). *Auk*
128:777-788.
- Lim, H. C.**, and F.H. Sheldon. 2011. Multilocus analysis of the evolutionary dynamics of rainforest bird
populations in Southeast Asia. *Molecular Ecology* 20:3414-3438. (Cover page article)
- Lim, H. C.**, M. A. Rahman, S. L. H. Lim, R. G. Moyle, et al. 2011. Revisiting Wallace's haunt:
Coalescent simulations and comparative niche modeling reveal historical mechanisms that
promoted avian population divergence in the Malay Archipelago. *Evolution* 65:321-334.
- Yong, D. L., L. Qie, N. S. Sodhi, L. P. Koh, K. S.-H. Peh, T. M. Lee, **H. C. Lim**, and S. L.-H. Lim 2011.
Do insectivorous bird communities decline on land-bridge forest islands in Peninsular Malaysia?
Journal of Tropical Ecology 27:1-14.
- Hosner, P. A., F. H. Sheldon, **H. C. Lim**, and R. G. Moyle. 2010. Phylogeny and biogeography of the
Asian trogons (Aves: Trogoniformes) inferred from nuclear and mitochondrial DNA sequences.
Molecular Phylogenetics and Evolution 57:1219-1225.

- Lim, H. C.**, F. S. Zou, S. S. Taylor, B. D. Marks, et al. 2010. Phylogeny of magpie-robins and shamas (Aves: Turdidae: *Copsychus* and *Trichixos*): implications for island biogeography in Southeast Asia. *Journal of Biogeography* 37:1894-1906.
- Lim, H. C.**, F. H. Sheldon, and R. G. Moyle. 2010. Extensive color polymorphism in the Southeast Asian Oriental dwarf kingfisher *Ceyx erithaca*: a result of gene flow during population divergence? *Journal of Avian Biology* 41:305-318.
- Lim, H. C.**, and N. S. Sodhi. 2009. Space use and habitat selection of house crows in a tropical urban environment: A radio-tracking study. *Raffles Bulletin of Zoology* 57:561-568.
- Sheldon, F. H., **H. C. Lim**, J. Nais, M. Lakim, et al. 2009. Observations on the ecology, distribution and biogeography of forest birds in Sabah, Malaysia. *Raffles Bulletin of Zoology* 57:577-586.
- Sheldon, F. H., D. J. Lohman, **H. C. Lim**, F. Zou, et al. 2009. Phylogeography of the magpie-robin species complex (Aves: Turdidae: *Copsychus*) reveals a Philippine species, an interesting isolating barrier and unusual dispersal patterns in the Indian Ocean and Southeast Asia. *Journal of Biogeography* 36:1070-1083.
- Zou, F., **H. C. Lim**, B. D. Marks, R. G. Moyle, and F. H. Sheldon. 2007. Molecular phylogenetic analysis of the gray-cheeked fulvetta (*Alcippe morrisonia*) of China and Indochina: a case of remarkable genetic divergence in a "species". *Molecular Phylogenetics and Evolution* 44:165-174.
- Lim, H. C.** and N. S. Sodhi. 2004. Responses of avian guilds to urbanization in a tropical city. *Landscape and Urban Planning* 66:199-215.
- Lim, H. C.**, N. S. Sodhi, B. W. Brook, and M. C. K. Soh. 2003. Undesirable aliens: factors determining the distribution of three invasive bird species in Singapore. *Journal of Tropical Ecology* 19:685-695.
- Brook, B. W., N. S. Sodhi, M. C. K. Soh, and **H. C. Lim**. 2003. Abundance and projected control of invasive house crows in Singapore. *Journal of Wildlife Management* 67:808-817.

PAPERS IN PREPARATION OR REVIEW

- Lim H.C.** and M.R. Posa. Distribution and prey of migratory shorebirds in northern coastline of Singapore. (Submitted to: *Raffles Bulletin of Zoology*)
- Lim, H.C.**, C.-C. Chu, S.A. Cameron. Gut microbiotas and microbial community structure of nine bumble bee species from across the *Bombus* phylogeny. (Target journal: *Applied and Environmental Microbiology*)
- Lim, H.C.**, J. D. Lozier, R.W. Thorp and S. A. Cameron. Recent European origin of North American bumble bee pathogen *Nosema bombi* (Microsporidia): Evidence from historical specimens, and phylogenetic and population genomic analyses. (Target journal: *PLOS Pathogens*)
- Lim, H. C.**, V. Chua and F.H. Sheldon. Phylogeographic and demographic analysis of the Rufous-tailed Tailorbird (*Orthotomus sericeus*) of Sundaland: Implications for the biogeographic history and taxonomy of Palawan birds. (Target journal: *Auk*)

SELECTED PRESENTATIONS AND TALKS

- 2013 *Nosema* as a causal factor in the decline of North American bumble bees. **International Conference on Pollinator Biology, Health and Policy**, Pennsylvania State University, University Park, PA (Presented by Sydney Cameron)
- 2012 (Invited Speaker) Historical drivers and avian diversification in insular Southeast Asia. **International Ornithological Congress Southeast Asia**, Khao Lak, Thailand
- 2012 Using population genetics and historical samples to test the idea that *Nosema* in North American bumble bees are recent invaders from Europe. **First Joint Congress on Evolutionary Biology**, Ottawa
- 2012 Deep amplicon sequencing of *Nosema bombi* in bumble bees: diversity and population structure. **Institute for Genomic Biology Fellows Symposium**, University of Illinois

- 2010 Testing the *Nosema* invasion hypothesis with molecular tools and natural history collections. **IUCN North American Bumble Bee Conservation Planning Workshop**, St. Louis, MI. (Presented by Jeffery Lozier)
Species-level genetic diversity in Southeast Asian Birds: Patterns and causes. **American Genetic Association Annual Symposium**, Hilo, HI.
Population dynamics of three species of passerines in Southeast Asia: The impact of past climatic and geographic changes. **128th American Ornithologists' Union Meeting (joint meeting with COS and SCO)**, San Diego, CA
- 2009 Examining diversification of avian lineages in Indo-Malayan Archipelago using statistical phylogeography and ecological niche modeling. **127th American Ornithologists' Union Meeting**, Philadelphia, PA
Vicariance in Sundaland avian lineages through the last glacial cycles: The role of habitat barriers. **XXVIII Willi Hennig Society Meeting**, Singapore
(1) Bird systematics and evolution of Bornean avifauna (2) Tropical bird ecology and conservation. **Biodiversity of Borneo 2009, Harvard Summer School and Center for Tropical Forest Science**, Lambir Hills National Park, Malaysia
Timing of population divergence in three Southeast Asian bird species. **Annual Biomedical Research Conference for Minority Students (ABRCMS)**, Phoenix, AZ. (Poster presentation by undergraduate student, Danielle Ward – FASEB MARC Travel Award recipient)
- 2007 Country (Malaysia) Report. **All Birds Barcoding Initiative, Indomalayan regional meeting**, National University of Singapore, Singapore
- 2006 Species status of two forest kingfishers, *Ceyx erithacus* and *C. rufidorsa*, in Southeast Asia. **IV North American Ornithological Conference**, Veracruz, Mexico

GRANTS AND AWARDS

- 2012 University of Illinois Urbana-Champaign, Campus Research Board (\$23,300)
- 2010 McDaniel Travel Award, LSU Department of Biological Sciences (\$800)
Marcia Brady Tucker Student Travel Award, American Ornithologists' Union (\$750)
American Genetics Association Annual Symposium (Hawaii) Travel Award (\$1200)
- 2009 C.R. Komma Memorial Outstanding Graduate Student Award, LSU
Marie C. Stopes Travel Award, the Willi Hennig Society (\$1000)
BioGrad Research Award, LSU Department of Biological Sciences (\$500)
Marcia Brady Tucker Student Travel Award, American Ornithologists' Union (\$750)
- 2008 American Ornithologists' Union Student Research Award (\$2000)
BioGrad Research Award, LSU Department of Biological Sciences (\$500)
- 2007 T. Vinton Holmes Ornithology Research Award, LSU Department of Biological Sciences (\$1000)
Birdathon Research Award, LSU Museum of Natural Science (\$1000)
- 2006 James M. Bishop Research Award, LSU Museum of Natural Science (\$800)
Birdathon Research Award, LSU Museum of Natural Science (\$1000)
- 2005 Frank M. Chapman Grant, American Museum of Natural History (\$1800)
- 2000-02 Research Scholarship, Department of Biological Sciences, National University of Singapore (\$18,000/year)

SELECTED ACADEMIC SERVICES AND OUTREACH

- 2012-13 IUCN Bumble Bee Specialist Group, Conservation Genetics Committee
- 2012 Reviewer for Graduate Student Research Awards, Society of Systematic Biologists
- 2011 External performance reviewer for Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences

- 2011-12 Mentor for undergraduate students (Megan Ahern, Elizabeth Srbeny, Tanya Josek, Kirsten Wong) undertaking introductory research in the Cameron Lab
- 2011-12 UIUC journal club organizer (Landscape Genetics/Molecular Ecology)
- 2010 Population genetics working group, IUCN North American Bumble bees Species Conservation Planning Workshop, St. Louis, MI
- 2008-10 Mentor for undergraduates involved in independent research or work-study program: Danielle Ward (Research Associate, LSU School of Veterinary Medicine) and Phred Benham (PhD candidate, University of Illinois)
- 2009 Instructor, Ornithological field techniques. Harvard Summer School and Center for Tropical Forest Science, Borneo, Malaysia.
- 2005-10 LSU Museum of Natural Science Big Day Fundraising Committee

Journal referee for

Auk, Biodiversity and Conservation, Biotropica, BMC Evolutionary Biology, Global Ecology and Biogeography, Ecological Research, Frontiers in Zoology, Journal of Heredity, Landscape and Urban Planning, Molecular Phylogenetics and Evolution, PLOS One, Raffles Bulletin of Zoology, and Urban Forestry and Urban Greening