

# SINLAN POO

PH.D. CANDIDATE, DEPARTMENT OF BIOLOGICAL SCIENCES, NATIONAL UNIVERSITY OF SINGAPORE

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## EDUCATION

**Ph.D. Candidate:** 2010-Present, Department of Biological Sciences, National University of Singapore

**B.A.:** 2003-2007, Boston University, Major: Biology, Specialization in Ecology and Conservation Biology  
*Summa cum laude* with distinction (GPA 3.91)

## PUBLICATION

1. **Poo, S.**, Evans, T.A., Tan, M.K., & Bickford, D.P. (submitted). Dynamic switching in predator attack and maternal defense of egg prey.
2. Karraker, N., Fischer, S., Aowphol, A., Sheridan, J., & **Poo, S.** (submitted). Signals of forest loss and degradation in the demography of Asian amphibians.
3. **Poo, S.** & Bickford, D.P. (2014). Hatching plasticity in a Southeast Asian Treefrog. *Behavioral Ecology and Sociobiology*.
4. **Poo, S.** & Bickford, D.P. (2013). The adaptive significance of egg attendance in a Southeast Asian treefrog. *Ethology*, 199(8), 671-679. – **Natural History (cover story)**
5. Bickford, D., **Poo, S.**, & Posa, M. R. C. (2012). Southeast Asian biodiversity crisis. In D. Gower, K. Johnson, J. Richardson, B. Rosen, L. Rüber & S. Williams (Eds.), *Biotic evolution and environmental change in Southeast Asia*. Cambridge, U.K.: Cambridge University Press.
6. Caldwell-Harris, C. L., Tong, J., Lung, W., & **Poo, S.** (2011). Physiological reactivity to emotional phrases in Mandarin—English bilinguals. *International Journal of Bilingualism*, 15(3), 329-352.

## PRESENTATION

1. **Poo, S.** (2014). Dynamic switching in attack and defense behaviors between a predator and maternal guardians of its prey. Ecological Society of America Annual Conference, Sacramento, CA.
2. **Poo, S.** (2014). The adaptive significance of egg attendance in a Southeast Asian treefrog. International Society for Behavioral Ecology Annual Conference, New York, NY.
3. **Poo, S.** (2014). The adaptive significance of egg attendance in a Southeast Asian treefrog. Society for Conservation Biology Asia Conference, Malacca, Malaysia.
4. **Poo, S.** (2013). Parental care of a Southeast Asian treefrog, *Chiromantis hansenae*. Biological Sciences Graduate Congress, Bangkok, Thailand. - Best Oral Presentation 2<sup>nd</sup> place.
5. **Poo, S.** (2011). Evolutionary Ecology and Conservation: comparative, reproductive, and applied biodiversity research. National University of Singapore Department of Biological Science Research Lab Talks, Singapore.
6. **Poo, S.** (2010). Parental Care in a Southeast Asian Amphibian. Association for Tropical Biology and Conservation Annual Meeting, Bali, Indonesia.
7. **Poo, S.** (2007). An analysis of embryonic development across the premature hatching period in leaf-breeding treefrogs, genera *Agalychnis* and *Pachymedusa*. Biology Work for Distinction Symposium, Boston University, Boston, MA.
8. Harris, C.L., Lung, W., Mehta, N., **Poo, S.**, Robles, C., and Swaminathan, N. (2005). When does a First Language Feel More Emotional to Bilingual Speakers? Eastern Psychological Studies Association Annual Meeting, Boston, MA.

## RESEARCH EXPERIENCE

<b>Graduate Research</b>	1/2010-Present
National University of Singapore, Department of Biological Sciences Evolutionary Ecology and Conservation Lab, Dr. David Bickford Conducted research on reproductive and behavioral ecology of Southeast Asian amphibians. Investigated the parental care behavior of the leaf-breeding treefrog <i>Chiromantis hansenae</i> .	SINGAPORE THAILAND
<b>Field Biologist</b>	2/2008-5/2009
Santa Ana Watershed Association, Riverside Biological Monitoring Program Conducted day and night surveys for threatened or endangered amphibians and reptiles. In addition, conducted carnivore studies (track, scat, camera stations), small mammal trapping, invertebrate surveys, and rare plant studies.	Riverside, CA USA
<b>Fish and Wildlife Scientific Aide</b>	9/2007-2/2008
California Department of Fish and Game Worked on the Herpetology Crew under the Multiple Species Habitat Conservation Plan. Monitored targeted species using visual encounter surveys, herp arrays (funnel and fence traps), coverboards, and turtle traps. In addition, surveyed and monitored endangered fairyshrimp.	Riverside, CA USA
<b>Independent Work for Distinction (Honor's thesis)</b>	9/2006-5/2007
Boston University Biology Department, Embryo Behavior Lab, Prof. Karen Warkentin Compared embryonic development within the premature hatching period across six species of tropical treefrogs in the genus <i>Agalychnis</i> and <i>Pachymedusa</i> using microscope dissections.	Boston, MA USA
<b>National Science Foundation, Research Experience for Undergraduates (NSF-REU)</b>	6/2006-8/2006
Smithsonian Tripoical Research Institute Boston University Biology Department, Embryo Behavior Lab, Prof. Karen Warkentin Assisted in study of role of vibrational cues in the premature hatching of the Red-eyed Treefrog by conducting playbacks both in the field and in laboratory settings.	PANAMA
<b>Tropical Ecology Program</b>	1/2006-5/2006
Boston University International Programs Universidad San Francisco de Quito, Ecuador Designed and conducted small research projects in tropical mountain, rainforest, and coastal ecosystems. Projects included studies on herpetofauna, bats, lemon-ant trees, brittlestars, medicinal plants, ghost crabs, and marine invertebrates living in tidal pools.	ECUADOR
<b>Undergraduate Research Assistant (volunteer)</b>	7/2005-12/2005
Boston University Biology Department, Terrestrial Biogeochemistry Lab, Prof. Arian Finzi Assisted with processing plant and soil samples from Free Air Carbon Dioxide Experiment and study on plant uptake of soil organic matter and amino acid in temperate forests.	Boston, MA USA
<b>Undergraduate Research Assistant (volunteer)</b>	3/2005-12/2005
Boston University Biology Department, Embryo Behavior Lab, Prof. Karen Warkentin Assisted with research on embryonic development and premature hatching due to pathogens in amphibians and conducted locomotor performance experiments with tadpoles and juvenile frogs.	Boston, MA USA
<b>Research Internship</b>	7/2004-8/2004
Institute of Zoology, Academia Sinica, Marine Virology Lab, Prof. Ya-Li Hsu Assisted with maintaining cell cultures for research on viroproteins from viruses that influence the local fish and shrimp populations in Taiwan.	TAIWAN
<b>Research Assistant; Experimenter (volunteer)</b>	9/2003-6/2004
Boston University Psychology Department, Psycholinguistics Lab, Prof. Catherine Harris Conducted experiments and assisted with research in Mandarin Bilingual Research Project. Examined the emotional experience of first and second languages in bilingual speakers.	Boston, MA USA

## GRANTS, SCHOLARSHIPS, AND AWARDS

<b>Travel Award</b> National University of Singapore, Department of Biological Sciences	2014
<b>Singapore International Graduate Award (SINGA)</b> National University of Singapore	2010-2014
<b>Funded Research Opportunities Grant</b> Boston University Undergraduate Research Opportunities Program	2007
<b>National Science Foundation, Research Experience for Undergraduates (NSF-REU)</b> Boston University Biology Department Smithsonian Tropical Research Institute, Panama	2006
<b>Ester Chandler Scholarship</b> Boston University College of Arts and Sciences	2004-2007

## HONORS

<b>Senior Book Award in Biology</b> Boston University, Biology Department	2007
<b>Phi Beta Kappa Member, December Initiate</b> Boston University, Epsilon of Massachusetts	2006
<b>National Society of Collegiate Scholars Member</b> Boston University branch	2004-2007
<b>Dean's list (every semester)</b> Boston University College of Arts and Sciences	2003-2007

## OTHER WORK EXPERIENCE

<b>Guest Speaker</b> Sakaerat Environmental Research Station Gave talks periodically on ecological research and experimental design to secondary and university students.	6/2011-Present THAILAND
<b>Teaching Assistant</b> National University of Singapore Taught undergraduates courses in introductory Biology, Ecology, and Biodiversity.	1/2010-Present SINGAPORE
<b>Certified Tutor</b> Boston University Educational Resource Center, College Reading and Learning Association Taught undergraduates courses in introductory Biology, Ecology, Calculus, Statistics, General Psychology, and Personality Psychology.	1/2005-12/2005 Boston, MA USA
<b>Undergraduate Teaching Assistant</b> Boston University Biology Department Taught and assisted in Introductory Biology laboratory courses.	1/2005- 5/2005 Boston, MA USA
<b>Grader</b> Boston University Mathematics Department Graded exams for Introductory Calculus and Statistics courses.	1/2004-12/2005 Boston, MA USA

## PROFESSIONAL AFFILIATIONS

**Member:** Animal Behavior Society (since 2011), Ecological Society of America (since 2011), The Herpetologists' League (since 2011), Society for the Study of Amphibians and Reptiles (since 2011), Society for Conservation Biology (since 2014), International Society for Behavioral Ecology (since 2014).

## LICENSE AND CERTIFICATIONS

<b>Fairy shrimp identification license</b> Fish and Wildlife Service	3/2008
<b>CPR and AED performer</b> American Safety & Health Institute	2/2008
<b>Wilderness First Aid</b> Foster Calm, Nevada City, CA	2/2008

## COMPUTER SKILLS

English and Chinese input  
R programming, ArcGIS mapping, Topo! and GPS unit operation,  
Adobe Illustrator, Photoshop, ImageJ  
Microsoft Word, Excel, Powerpoint, and Access

## LANGUAGES

Mandarin Chinese and English (native)  
Spanish (basic)

## PROFESSIONAL REFERENCES

### **Prof. David Bickford**

(Ph.D dissertation advisor)  
National University of Singapore  
Department of Biological Sciences  
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SINGAPORE  
Phone: (+65) 6516-2858  
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### **Mr. Robert Packard**

(Crew leader and supervisor)  
Herpetology Crew Leader  
Western Riverside Biological Monitoring Program  
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### **Prof. Fredrick Wasserman**

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### **Prof. Ivan Gomez-Mestre**

(Undergraduate honor's thesis advisor)  
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