

# Irene Ai-Yin Liu

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Department of Biology  
Duke University  
Box 90338  
Durham, NC 27708

irene.liu at duke.edu  
919-660-0927

## EDUCATION

Duke University, Biology, Ph.D. program (2007 – present)  
University of Maryland, College Park, B.S. in Zoology (High Honors) and B.A. in Spanish Language and Literature, *summa cum laude* (2002 – 2006)

## EXPERIENCE

### **Jan. – Aug. 2007**                      **Research intern, Archbold Biological Station, Florida**

*Supervisor: Dr. Reed Bowman, Associate Research Biologist*

- collected demographic data for a long-term research program on Florida scrub-jays
- designed and presented an independent project examining correlates of neophobia in yearlings

### **May – Aug. 2006**                      **Field technician, University of Maine**

*Supervisor: Brent Horton, doctoral candidate, Department of Biological Sciences*

- studied the effects of corticosterone on provisioning behavior in white-throated sparrows
- searched for, monitored and filmed nests; measured nestling growth rates; and provided assistance with hormone implant surgeries on adult males

### **Sep. 2004 – May 2006**                      **Biology Honors Project, University of Maryland**

*Advisors: Dr. Russell Greenberg, Smithsonian Migratory Bird Center, and Dr. Bernard Lohr, Department of Psychology*

- conducted independent fieldwork (song recording and playbacks) in Summer 2005
- defended Honors thesis, “Macroegeographic vocal variation in subspecies of swamp sparrow,” in May 2006 in fulfillment of the Biology Honors Program

### **Dec. 2004 – Jan. 2005**                      **Field technician, University of Maryland**

*Supervisor: Shannon Borges, doctoral candidate, Department of Biology*

- mapped habitats, conducted quadrat surveys and GPSed locations of sighted birds for a study on habitat preferences of wintering mid-Atlantic grassland birds

### **Feb. – May 2004**                      **Data analyst, University of Maryland**

*Supervisor: Dr. Bernard Lohr, Department of Psychology*

- examined song variation in two grasshopper sparrow populations

### **Jun. – Aug. 2003**                      **Data analyst, University of Maryland**

*Supervisor: Jean-François Savard, doctoral candidate, Department of Biology*

- transcribed videotaped data of satin bowerbird courtship displays

## GRANTS, SCHOLARSHIPS AND FELLOWSHIPS

Sep. 2008 – Sep. 2013	National Science Foundation Graduate Research Fellowship
Sep. 2008 – May 2009	University Scholars Program Graduate Mentor Fellowship, Duke University
May 2008	American Ornithologists' Union Research Award
Apr. 2008	Sigma Xi Grant-in-Aid of Research
Apr. 2008	Paul A. Stewart Award, Wilson Ornithological Society

Mar. 2008 McKinley Research Award, Pymatuning Laboratory of Ecology,  
University of Pittsburgh  
Sep. 2007 – May 2011 James B. Duke Fellowship  
Sep. 2007 – May 2008 University Scholars Program Fellowship, Duke University  
Jun. 2006 IV North American Ornithological Conference Travel Award

### **UNDERGRADUATE AWARDS**

May 2006 – present Phi Beta Kappa National Honor Society  
Jan. 2006 University of Maryland Study Abroad Scholarship (Costa Rica)  
May 2005 – May 2006 Howard Hughes Medical Institute Undergraduate Research Fellowship  
May – Aug. 2005 Senior Summer Scholars Grant, Maryland Center for Undergraduate  
Research  
Mar. 2005 Honors Research Grant, University Honors Program  
Oct. 2004 Dean's Scholar, College of Arts and Humanities  
May 2004 Phi Kappa Phi Study Abroad Grant (Spain)  
Mar. 2004 University of Maryland Study Abroad Scholarship (Spain)  
May 2003 – present Phi Kappa Phi National Honor Society  
Sep. 2002 – May 2006 Banneker/Key Scholarship (four-year, full-tuition scholarship)  
Sep. 2002 – May 2006 Maryland Distinguished Scholar, Academic Achievement and  
Instrumental Music  
Feb. 2002 National Merit Scholarship

### **PUBLICATIONS**

**Liu, I.A.**, B. Lohr, B. Olsen, and R. Greenberg. 2008. Macrogeographic vocal variation in subspecies of swamp sparrow. *Condor* 110:102-109.

### **POSTERS AND PRESENTATIONS**

**Liu, I.A.**, B. Lohr, B. Olsen, and R. Greenberg. Aug. 2008. Macrogeographic vocal variation in subspecies of swamp sparrow. 45<sup>th</sup> annual meeting of the Animal Behavior Society, Snowbird, Utah. (poster)  
**Liu, I.A.** Sep. 2007. Neophobia in the Florida scrub-jay: correlates of response. Behavioral, Population and Community Ecology seminar, Duke University. (presentation)  
Olsen, B.J., R. Greenberg, **I.A. Liu**, J.M. Felch, and J.R. Walters. Aug. 2007. Interactions between sexual and natural selection in the plumage divergence of the Coastal Plain Swamp Sparrow. 125<sup>th</sup> stated meeting of the American Ornithologists' Union, Laramie, Wyoming. (presentation)  
**Liu, I.A.**, B. Lohr, B.J. Olsen, and R. Greenberg. Oct. 2006. Macrogeographic vocal variation in subspecies of swamp sparrow. IV North American Ornithological Conference, Veracruz, Mexico. (presentation)

### **PROFESSIONAL AFFILIATIONS**

Animal Behavior Society, American Ornithologists' Union, Cooper Ornithological Society, Wilson Ornithological Society, Society for the Study of Evolution

### **LANGUAGES**

Acquired fluency in Spanish, proficiency in Mandarin Chinese