

## M. Elise Lauterbur

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### EDUCATION

**Stony Brook University**, Department of Ecology and Evolution, Stony Brook, NY

PhD Student

Advisors: Patricia C. Wright and Liliana Dávalos

**Oberlin College and Conservatory**, Oberlin, OH

BA, Biology, minor in Environmental Studies, 2008

Advisor: Keith Tarvin

BM, Historical Performance (Recorder), minor in Historical Performance (Baroque Flute), 2008

Advisors: Alison Melville and Kathy Stewart

### SELECTED AWARDS, HONORS, and FELLOWSHIPS

**Robert R. Sokal Award for Research in Statistical Biology**, Department of Ecology and Evolution, Stony Brook University, 2015

**Summer Institute of Statistical Genetics Scholarship**, Department of BioStatistics, University of Washington, 2015

**Research Award**, Department of Ecology and Evolution, Stony Brook University, 2015

**Departmental Excellence Research Award**, Department of Ecology and Evolution, Stony Brook University, 2014

**NSF Graduate Research Fellowship**, 2008

**Graduate Council Fellowship**, Stony Brook University, 2008

**Presidential Fellowship**, Stony Brook University, 2008

**Phi Beta Kappa**, Oberlin College, 2008

**Sigma Xi**, student member, Oberlin College, 2008

### RESEARCH

**Simulating multigene family evolution to study the effects of selection**, Research Assistant, Spring 2015 - ongoing, supervised by Dr. Liliana Dávalos

**Developing and coding reference-assisted exon assembly pipeline**, ongoing

**Sequencing and analysis of aDNA and development of associated bioinformatics pipelines**, Research Assistant, Summer 2014, supervised by Dr. George Perry

**Developed methods and analyzed 30-year life history and phenology data sets to study drivers of infant mortality in the Milne-Edwards Sifaka (*Propithecus edwardsi*)**, Fall 2013 and Spring 2014

**Sample collection from Aye-aye (*Daubentonia madagascariensis*) feeding sites in Ranomafana National Park to isolate DNA from saliva**, Fall 2009

**Experimental behavioral and genetic study of male mate choice in wild American Goldfinches (*Carduelis tristis*)**, Summer and Fall 2007, supervised by Dr. Keith Tarvin

Last updated 26 August 2015

## PUBLICATIONS

- Lauterbur, M.E.**, Greene, B.L., and Wright, P.C. (2014). Drivers of high infant mortality in *Propithecus edwardsi*: The role of resource availability. *American Journal of Physical Anthropology*, 153(S58): 165. DOI: 10.1002/ajpa.22488
- Herrera, J. P., Wright, P.C., **Lauterbur, M.E.**, Ratovonjanahary, L. (2011). The effects of habitat disturbance on lemurs at Ranomafana National Park, southeast Madagascar. *International Journal of Primatology*, 32(5): 1091-1108. DOI: 10.1007/s10764-011-9525-8
- Herrera, J. P., **Lauterbur, M.E.**, Wright, P.C., Ratovonjanahary, L., Taylor, L. L. (2009). Rapid assessment of lemurs in disturbed and undisturbed habitats in southeast Madagascar. *American Journal of Primatology*, 71(S1): 90. DOI: 10.1002/ajp.20733
- Tarvin K. A., Bishop M. E., **Lauterbur, M.E.**, Russo L., Rosenthal M.F., Murphy T. G. (2009). Does ornamentation of female goldfinches increase male parental investment? *Animal Behaviour Society*, Pirenópolis, Brazil.

## TEACHING EXPERIENCE

- Instructor**, Summer 2015, Introduction to Statistics (PhD course) – CSM 599, Stony Brook University Manhattan
- Developed** two week intensive course (3 hours/day, 2 credits) for Science Education PhD students, in collaboration with two other instructors, including writing lectures and activities and developing assessments using active learning and assessment of conceptual change
- Taught** all classes at SBU Manhattan campus, including giving lectures, guiding in-class activities, and assessment
- Teaching Assistant**, Fall 2013, Fall 2014, Fall 2015, Conservation Biology – BIO 336/BEE 572 (co-listed masters course), Stony Brook University
- Responsibilities:** Give lectures, develop assignments and exams, grade all papers, exams, and homework, organize student tutors, hold review sessions
- Teaching Assistant**, Fall 2009, Madagascar Study Abroad through Stony Brook University
- Responsibilities:** Gave field lessons and class lectures, evaluated and guided independent student research proposals and final papers, graded exams and homeworks
- Classes:**
- Biodiversity Science Field Methods
  - Primate Behavior and Ecology
  - Madagascar Ecosystems
  - Independent Research

## GUEST LECTURES

- Using Genetics as a Tool in Primate Conservation**, Spring 2015, for Conservation Issues (ANP 360), Stony Brook University
- Species Interactions: Parasitism and Infectious Disease**, Fall 2014, for Conservation Biology (BIO 336/BEE 572), Stony Brook University
- Species Interactions: Impact of Invasion**, Fall 2014, for Conservation Biology (BIO 336/BEE 572), Stony Brook University

## DEPARTMENT AND UNIVERSITY SERVICE

- Graduate Student Employee Union representative**, Stony Brook University (Fall 2014 - ongoing)
- Behavioral Ecology Group President**, Stony Brook University (Fall 2015 - ongoing)

**Behavioral Ecology Group Webmaster**, Stony Brook University (Fall 2014 – Fall 2015)

- **Development** of new Behavioral Ecology Group website

**Conservation Biology Club Secretary**, Stony Brook University (Fall 2013 – Spring 2014)

### **PUBLIC OUTREACH AND SERVICE**

**Public Talk: The Natural History of Madagascar: From Proto-Lemurs to Bamboo Lemurs**,  
Spring 2015, East Setauket, NY

**World Lemur Festival**, Stony Brook University (Fall 2014) – organization and outreach to educate about conservation and social issues surrounding lemurs and Madagascar

**Earthstock**, Stony Brook University (Spring 2009, Spring 2014) – outreach to introduce students to Ecology and Evolution research;

**Darwin Day**, Stony Brook University (Spring 2015) – organization and outreach to promote Evolution education

**Leading Public Walks in Ashley Schiff Forest Preserve**, Stony Brook University (Fall 2014 - ongoing)

### **LANGUAGES**

#### **Computer languages**

R

Python

Bash (awk, sed)

#### **Foreign language**

French (reading proficiency)