

MARI KIMURA

Cornell Lab of Ornithology
Evolutionary Biology lab
159 Sapsucker Woods Road
Ithaca, NY 14850

email: mk336@cornell.edu

phone: (607) 254-1128

fax: (607) 254-2415

EDUCATION

- PhD PhD candidate, Cornell University, Ecology and Evolutionary Biology (9/02-present)
MA San Francisco State University, Biology, concentration in Ecology and Systematics
(2002) GPA 3.97
AB Columbia University, Columbia College, concentration in English (1984-1988, degree
awarded 1997, Dean's list 1984-85)

PUBLICATIONS – PEER-REVIEWED

Kimura, M., A.A. Dhondt, and I.J. Lovette. 2006. Phylogeographic structuring of *Plasmodium* lineages across the North American range of the house finch (*Carpodacus mexicanus*). *Journal of Parasitology*, 92(5): 1043-1049.

Smith, T.B., S.M. Clegg, **M. Kimura**, K. Ruegg, B. Milá, I.J. Lovette. 2005. Molecular Genetic Approaches to Linking Breeding and Overwintering Areas for Five Neotropical Migrant Passerines," in Greenberg, R. and Marra, P., eds. *Birds of Two Worlds: The Ecology and Evolution of Migratory Birds*, Johns Hopkins University Press, 488 pp.

Clegg, S.M., J.F. Kelly, **M. Kimura**, and T.B. Smith. 2003. Combining genetic markers and stable isotopes to reveal population connectivity and migration patterns in a Neotropical migrant, Wilson's warbler (*Wilsonia pusilla*). *Molecular Ecology*, 12:819-830.

Kimura, M., S.M. Clegg, I.J. Lovette, K.R. Holder, D.J. Girman, B. Milá, P. Wade, and T.B. Smith. 2002. Phylogeographical approaches to assessing demographic connectivity between breeding and overwintering regions in a Nearctic-Neotropical warbler (*Wilsonia pusilla*). *Molecular Ecology*, 11:1605-1616.

Milá, B., D.J. Girman, **M. Kimura**, and T.B. Smith. 2000. Genetic evidence for the effect of a postglacial population expansion on the phylogeography of a North American songbird. *Proceedings of the Royal Society of London: Biological Sciences*, 267:1033-1040.

PUBLICATIONS – POPULAR ARTICLES

Kimura, M. Teaching of todies and tropical birds. 2006. *Birdscope*, 20(2):5.

Kimura, M. and D.M. Hawley. More to house finches than meets the eye. March 2006. *The Quail* (and reprinted in the Cayuga Bird Club Newsletter, April 2006).

Kimura, M. The mosquito connection. 2005. *Birdscope*, 19(4):14.

PUBLICATIONS – IN PREPARATION

Kimura, M., J.M. Darbro, I.J. Lovette and L.C. Harrington. Avian malaria parasites are not vector-specific. (recently submitted to *Biology Letters* & *International Journal of Parasitology*; rejected by both).

Kimura, M. and L.C. Harrington. Amplification of avian malaria parasites by the *Culex p. pipiens* mosquito.

Kimura, M. When a host isn't really a host: avian malaria vectors revisited.

AWARDS AND FELLOWSHIPS

NSF Doctoral Dissertation Improvement Grant (2006-2007)

NSF student travel award (for North American Ornithological Conference, 2006)

Sigma Delta Epsilon (Graduate Women in Science), Hartley award (2006)

American Ornithologists' Union Student Research Award (2006)

Exploration Fund, Diversa award (2006)

Society for Integrative and Comparative Biology Grant in Aid of Research (2006)

Sigma Xi Grant in Aid of Research (2004)

Andrew D. Mellon student research grant (2004, 2006)

Cornell Fellowship (2002-2003)

California Predoctoral Fellowship – Sally Casanova award (2000)

GAANN fellowship (1997- 1999)

TEACHING EXPERIENCE

Introductory Biology (BIOG 105-106), Cornell University, teaching assistant and lab instructor, Fall 2004-present

Evolutionary Biology (BIOEE 278), Cornell University, teaching assistant, Fall 2003

Ornithology (BIOEE 475), Cornell University, teaching assistant, Spring 2004

Biology 240, San Francisco State University, lab instructor, Spring 2001

OUTREACH ACTIVITIES

Meet the Scientists (CLO Education dept.): participated in educational videos aimed at middle school science students and CLO visitor center (2007).

A Bird in the Hand: Expanding Your Horizons volunteer leader (2004-2007). Designed and taught ornithology workshops for middle-school girls from NY state.

Participated in bird banding workshop as part of Explorations program for undergraduate biology majors (2006).

Organized Cornell graduate level Ornithology seminar (2004-2005).

Coordinated trips and served as van driver for Cornell undergraduates to learn bird banding at Braddock Bay Bird Observatory for spring and fall migration (2003-2004).

CONTRIBUTED ORAL PRESENTATIONS

- Oct. 2006 North American Ornithological Conference, Veracruz, Mexico (co-organized symposium on avian diseases)
- June 2005 Scandinavian-Baltic Society for Parasitology, Ecology Institute, Vilnius, Lithuania
- June 2000 American Ornithologists' Union, St. John's, Newfoundland
- July 1999 Society for the Study of Evolution, Madison, WI
- Feb. 1999 Bay Area Conservation Biology Symposium, Berkeley, CA
- Oct. 1999 Neotropical Ornithological Congress, Monterrey, Mexico (talk given in Spanish)
- Apr. 1998 North American Ornithological Conference, St. Louis, MO

INVITED SEMINARS

- Mar. 2007 National Zoological Park, Conservation Biology Seminar Series
- Mar. 2006 University of Missouri, St. Louis, Biolunch series
- Dec. 2005 Cornell Laboratory of Ornithology, Monday Night Seminar series
- Oct. 2005 New York University, Dept. of Medical Parasitology, Avian Malaria symposium
- May 2005 University of Leiden, Netherlands, Behavior group meeting

PROFESSIONAL SERVICE

Served as peer-reviewer for *Molecular Ecology* (2), *Journal of Avian Biology* (1) and *Zootaxa* (1).

MEMBERSHIPS

American Ornithologists' Union
Society for Integrative and Comparative Biology
Sigma Delta Epsilon (Graduate Women in Science)

LANGUAGES

French (near fluency), Spanish (near fluency), Japanese (basic)

SYNOPSIS OF RESEARCH INTERESTS

I am interested in the evolution and ecology of vector-borne parasites. Using avian malaria as a model system, I am exploring questions related to parasite-vector interactions. I sample wild-caught birds and mosquitoes for malaria parasite infection in a local community in Ithaca, NY and conduct mosquito feeding trials in the lab. I use molecular methods to 1) identify natural vectors and their host range, 2) assess genetic diversity of the parasites and vectors, and 3) infer parasite specificity with their vectors.