

HILTON MASAHARU OYAMAGUCHI

Department of Biology
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APPOINTMENTS

- 2015 - Postdoctoral Fellow. Drexel University. Advisor: Dr. Katy Gonder.
2014 - 2015 Visiting Assistant Professor. Department of Biological Sciences, University of the Pacific.

EDUCATION

- 2007-2014 Ph.D. in Biology. University of California, Los Angeles. Advisor: Dr. Thomas B. Smith.
2004-2006 M.S. in Ecology. University of São Paulo, Brazil. Advisor: Dr. Marcio R. C. Martins.
2003-2005 Teaching Certificate in Biology. University of São Paulo, Brazil.
1999-2003 B.S. in Biology. University of São Paulo, Brazil.

TEACHING EXPERIENCE

- 2016- Instructor. Field Research in Tropical Ecology (ENVS 343), Equatorial Guinea. Drexel University.
2015- Instructor. Field Methods in Tropical Ecology (ENVS 344), Equatorial Guinea. Drexel University.
2015 Instructor. Online Course. Environment: Concepts and Issues (BIO35). University of the Pacific.
Instructor. Introduction to Biology (BIOL51). Topics covered: ecology, evolution and organismal diversity. University of the Pacific.
2014 Instructor. Introduction to Biology (BIOL61). Topics covered: cell biology, photosynthesis, cellular respiration, genetics, and physiology. University of the Pacific.
Instructor. Environment: Concepts and Issues (BIO35). University of the Pacific.
2012-2013 Teaching Assistant. Why Ecology Matters: Science Behind Environmental Issues (BIO18). UCLA.
2008-2013 Teaching Assistant. Ecology, Evolution, and Biodiversity. UCLA.
2011-2012 Laboratory Instructor. Introduction to ecology and behavior. UCLA.
2011 Teaching Assistant. Conservation of biodiversity. UCLA.
2004 Guest Lecturer, Biology and conservation of amphibians and reptiles. Institute for Biological Conservation (non-profit organization, Brazil).

PROFESSIONAL EXPERIENCE

- 2006-2007 Environmental consultant at OIKOS company. Amphibians and reptiles survey, Brazil.
2001-2002 Trainee at São Paulo State Environmental Office. Analyses of environmental licensing, Brazil.

PUBLICATIONS (♦Mentored undergraduate students)

- 2016 Oyamaguchi MH; ♦Oliveira E; Smith TB. Environmental drivers of morphological variation in the lesser treefrog (*Dendropsophus minutus*) across the Amazon and the Cerrado gradient. *Biological Journal of the Linnean Society* (Accepted).
2015 Oyamaguchi HM; ♦Okubo PR; Pollinger JP. Characterization of nine microsatellite markers for the lesser tree frog (*Dendropsophus minutus*). *Amphibia-Reptilia*, 36: 83-86.
Shaffer HB; Gidis M; McCartney-Melstad E; Neal K; Oyamaguchi HM; Tellez M; Toffelmier E. Conservation genetics and genomics of amphibians and reptiles. *Annual Reviews of Animal Biosciences*, 3: 113-138
2008 Brasileiro CA; Lucas EM; Oyamaguchi HM; Thome MCT; Dixo M. Anurans, Northern Tocantins River Basin, Tocantins and Maranhão States Northern Brazil. *Check List*, 4: 185-197.
Lucas EM; Brasileiro CA; Oyamaguchi HM; Martins MRC. The reproductive ecology of *Leptodactylus fuscus* (Anura, Leptodactylidae): new data from natural temporary ponds in the Brazilian Cerrado and a review throughout its distribution. *Journal of Natural History*, 42: 2305-2320.

- 2007 Brasileiro CA; Oyamaguchi HM; Haddad CFB. A new island species of *Scinax* (Anura; Hylidae) from southeastern Brazil. *Journal of Herpetology*, 41: 271-275.
- Thome MTC; Oyamaguchi HM; Brasileiro CA. Amphibia, Anura, Leptodactylidae, *Physalaemus bokermanni*: distribution extension. *Check List*, 3: 1-3.
- 2006 Brasileiro CA; Oyamaguchi HM. *Scinax alcatraz* Predation. *Herpetological Review*, 37: 451.

CONFERENCE PRESENTATIONS

- 2016 Oyamaguchi HM; Vo P; Grewal K; Do R; Lin A; Miyaki M; Chen C; Tse K; Jeong N; Erwin E; Gridi-Papp M. Thermal tolerance, acclimatory capacity and vulnerability of the Túngara frog to global climate change. Evolution meeting, Austin, Texas. Oral presentation.
- Oyamaguchi HM; Tasse G; Fokam E; Gonder MK. Phenotypic variation in the Puddle frog (*Phrynobatrachus auritus*) across environmental gradients in the African Guineo-Congolian rainforest. Evolution meeting, Austin, Texas. Poster.
- Oyamaguchi HM; Vo P; Grewal K; Do R; Ling A; Miyaki M; Chen C; Tse K; Erwin E; Gridi-Papp M. Thermal Acclimation and Tolerance in The Túngara Frog (*Engystomops pustulosus*). AAAS Annual Meeting, Washington D.C. Poster.
- 2015 Jeong N; Erwin E; Do, R; Miyake M; Chen C; Tse K; Lin A; Oyamaguchi HM. Predicting the effects of global warming: the upper critical thermal limits of the tungara frog (*Engystomops pustulosus*). Pacific Undergraduate Research and Creativity Conference, Stockton, CA. Poster.
- Do R; Ling H; Oyamaguchi HM. Arduino: weather station for the field researcher on a budget. Pacific Undergraduate Research and Creativity Conference. Stockton, CA. Poster.
- Ha C; Tse K; Miyake, M; Chen, C; Lin, A; Oyamaguchi, HM. How ribbiting! Intra and inter- observer differences in measuring amphibian body length. Pacific Undergraduate Research and Creativity Conference. Stockton, CA. Poster.
- 2013 *Oyamaguchi HM; Smith TB. Importance of the Amazon-Cerrado gradient in preserving adaptive variation in a changing world. 26th International Congress for Conservation Biology. Baltimore, USA. *1st Place poster presentation award sponsored by Animal Conservation journal.
- 2012 *Oyamaguchi HM; Smith TB. Divergence along a Brazilian rainforest-savanna gradient and the role of ecology in generating diversity. 7th World Congress of Herpetology, Vancouver, Canada. *Honorable Mention in the Henri Seibert Competition. Oral presentation.
- Oyamaguchi, HM; Smith TB. Evaluating the effects of natural selection and genetic drift in driving Divergence between populations of the lesser treefrog (*Dendropsophus minutus*) along the Amazon-Cerrado gradient. 1st Joint Congress on Evolutionary Biology, Ottawa, Canada. Oral presentation.
- *Oyamaguchi HM; Smith TB. Evaluating the relative roles of natural selection and genetic drift in the diversification process in frogs along the Brazilian rainforest-savanna gradient. 15th Annual Biology Research Symposium, UCLA. *Outstanding graduate poster presentation award.
- 2005 Oyamaguchi HM; Brasileiro CA.; Martins MRC. Habitat use plasticity in *Leptodactylus fuscus* (Anura:Leptodactylidae) in the Itirapina region, São Paulo, Brazil. 2nd Brazilian Herpetological Congress. Poster presentation.
- Brasileiro CA; Oyamaguchi HM; Thome MTC. Distribution, natural history and conservation of *Scinax alcatraz* (Anura:Hylidae) on Alcatrazes Island, São Paulo, Brazil. 2nd Brazilian Herpetological Congress. Oral presentation.
- 2004 Oyamaguchi HM; Brasileiro CA; Lucas EM; Martins MRC. The call repertory of *Leptodactylus fuscus* population (Anura : Leptodactylidae) in a Brazilian savanna fragment, southeastern Brazil. 1st Brazilian Herpetological Congress. Poster presentation.
- 2003 Oyamaguchi HM; Brasileiro CA; Lucas EM; Martins MRC. Advertisement call variation in *Leptodactylus fuscus* (Anura: Leptodactylidae) in a Brazilian savanna fragment, southeastern Brazil. VI Brazilian Ecology Congress. Poster presentation.
- Schaalman CT; Oyamaguchi HM; Dias TS. Birds occurrence mapping of environmental areas licensing in the state of São Paulo, Brazil. VII Neotropical Ornithology Congress. Oral presentation.

RESEARCH GRANTS & FELLOWSHIPS

- 2013 Travel award. International Congress for Conservation Biology, Baltimore (\$400).
- 2012-2013 Jorge Paulo Lemann Fellowship. Lemann Foundation (\$15,000).
- 2012 Ecology and Evolutionary Biology Department, UCLA. Research grant (\$1,900).
- 2011-2012 Dissertation Year Fellowship, UCLA (Tuition: \$14,617 + Stipend: \$19,500).
- 2011 The G2 Art Gallery research grant. Nature and Wildlife Photography (\$ 3,000).
- 2010 Sigma Xi Grant-in-Aid of Research. Research grant (\$900).
Idea Wild grant for field research. NGO (\$600).
Ecology and Evolutionary Biology Department, UCLA. Research grant (\$2,000).
The UCLA Latin American Center Institute. Graduate student research grant (\$2,000).
The California Academy of Sciences. The Kristina Louie Memorial Fund. Research grant (\$5,000).
- 2009 International Institute Fieldwork Fellowship, UCLA (\$5,000).
George Bartholomew Fellowship. Ecology and Evolutionary Biology Department, UCLA (\$7,500).
Ecology and Evolutionary Biology Department, UCLA. Research grant (\$2,000).
- 2008 The UCLA Latin American Center Institute. Faucett Doctoral Student Research Grant (\$2,000).
Ecology and Evolutionary Biology Department, UCLA. Research grant (\$1,800).
- 2007-2009 Non-resident tuition fee scholarship. Ecology and Evolutionary Biology Department, UCLA (\$25,000).
- 2004-2006 CNPq - National Research Council of Brazil Fellowship (~\$16,200).
- 2005 The Neotropical Grassland Conservancy. NGO. Student Research grant (\$400).
- 2004 Idea Wild grant for field research. NGO (\$900).

HONORS & AWARDS

- 2013 1st place poster presentation award. International Congress for Conservation Biology, Baltimore.
- 2012 Honorable Mention in the Henri Seibert award (oral presentation). 7th World Congress of Herpetology, Vancouver.
Outstanding graduate poster presentation award. 15th Annual Biology Research Symposium, UCLA.
- 2009 George Bartholomew Award. Best graduate student whose research has a significant field component. Ecology and Evolutionary Biology Department, UCLA.

INVITED PRESENTATIONS

- 2016 *Predicting the effects of climate change on tropical amphibians*. Center For Tropical Research, University of California, Los Angeles.
- 2015 *The role of ecology in driving the diversification process along the Amazon-Cerrado gradient*. Drexel University, Philadelphia, PA.
- 2014 *Exploring the mechanisms of diversification in frogs along the Amazon and Brazilian savanna gradient*. Biology Department, University of The Pacific, Stockton.
- 2012 *Evaluating the role of natural selection and genetic drift in the diversification process in frogs along the Brazilian rainforest-savanna gradient*. EcoEvoPub series, Ecology and Evolutionary Biology, UCLA.
The importance of the Amazon rainforest-Cerrado gradient in generating biodiversity. Biomedical Institution, Universidade de São Paulo, Brazil.
- 2011 *Exploring the mechanisms of diversification in frogs along the Amazon and Brazilian savanna gradient*. Biology Department, University of The Pacific, Stockton.

MENTORED UNDERGRADUATE STUDENTS

- 2014-2015 Robert Do, Narin Jeong, Eugene Erwin, Morgan Miyake, Chantelle Chen, Katherine Tse, Alice Lin, Henri Ling, Caitlin Ha. (University of the Pacific undergraduate).
- 2010-2013 Ryo Okubo (UCLA undergraduate). Universidade de São Paulo, Brazil (Exchanging program in Dr. Carlos Navas lab): Tadpole colony care and tadpole developmental analysis. Laboratory work at UCLA: DNA extraction, PCR and microsatellite analysis.

- 2011-2012 Becky Lee (UCLA undergraduate). Center for Tropical Research, UCLA: Vocalization analysis.
- 2008-2011 Edvagner Oliveira (Universidade Estadual do Mato Grosso, undergraduate). Field research in Brazil: Collection of amphibians, preserving specimens techniques, DNA sampling.
- 2009-2010 Débora D. Pinheiro (Universidade Federal do Mato Grosso, undergraduate). Field research in Brazil: Collection of amphibians, preserving specimens techniques, DNA sampling.

SERVICE & OUTREACH

Manuscript & Grant reviewer

- 2016 *Biological Journal of the Linnean Society* (Journal Review)
- 2015 *National Geographic* (Grant Review)
- 2014 *Hydrobiologia* (Journal Review)

Community service

- 2016 Student poster judge AAAS annual meeting poster section
Family Science Day AAAS annual meeting
- 2015 Moka Community Education Day: "Meet the Bioko Biodiversity Protection Program scientists", Equatorial Guinea.

Presentations

- 2012 Oyamaguchi, H.M. *Frogs conservation*. Panelist in The First Annual Young Environmentalist's Symposium at the G2 Art Gallery. Venice, CA.
Oyamaguchi, H.M. *Rainforest conservation*. DNA and the diversity of life: a special look inside UCLA's conservation genomics lab.
- 2009 Oyamaguchi, H.M. *The role of ecology in shaping intraspecific differentiation of Phyllomedusa hypochondrialis in the Amazon Basin, Brazil*. The Latin American Center, UCLA.

Popular article

- 2009 Oyamaguchi, H.M. *Exploring the Mechanisms of Diversification in the Amazon Rainforest*. Center for Tropical Research Newsletter.

REFERENCES

Dr. Mary Katherine Gonder (Supervisor)
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