

AMY G. VANDERGAST  
CURRICULUM VITAE

**POSITIONS HELD**

- Current                    **Geneticist**  
USGS Western Ecological Research Center  
San Diego Field Station
- Current                    **Adjunct Assistant Research Professor**  
Dept. of Biology, San Diego State University
- 2002 - 2004              **NSF Postdoctoral Fellow**  
Dept. of Biology, San Diego State University  
USGS, WERC, San Diego Field Station
- Spring 2002              **Adjunct Faculty**  
Department of Biology, Cuyamaca College

**EDUCATION**

- 1999 - 2002    **Ph.D.** University of California, Berkeley  
Environmental Science, Policy & Management; Division of Insect Biology  
Advisor: Dr. George Roderick
- 1996 - 1998    **M.S.** University of Hawaii  
Department of Zoology; Ecology, Evolution & Conservation Biology  
Advisor: Dr. Rosemary Gillespie
- 1991 - 1995    **B.S.** University of California, San Diego  
Major: Ecology, Behavior and Evolution, Minor: Theatre

**PUBLICATIONS**

- Vandergast, A. G., J. Bohonak Andrew, D. B. Weissman, and R. N. Fisher. *In review*.  
Understanding the genetic effects of recent habitat fragmentation in the context of  
evolutionary history: phylogeography and landscape genetics of a southern California  
endemic Jerusalem cricket (Orthoptera: Stenopelmatidae: *Stenopelmatus*). ***Molecular  
Ecology***.
- Vandergast, A.G., R.G. Gillespie and G.K. Roderick. 2004. Influences of volcanic activity on the  
population genetic structure of Hawaiian *Tetragnatha* spiders: fragmentation, rapid  
population growth and the potential for accelerated evolution. ***Molecular Ecology*** 13:  
1729-1743
- Vandergast, A.G. and R.G. Gillespie. 2004. Effects of natural forest fragmentation on a Hawaiian  
spider community. ***Environmental Entomology*** 33: 1296 – 1305.

- Vandergast, A.G., and G.K. Roderick. 2004. Mermithid parasitism of Hawaiian *Tetragnatha* spiders in a fragmented landscape (addendum). *Journal of Invertebrate Pathology* 85: 136-137.
- Vandergast, A.G. and G.K. Roderick. 2003. Mermithid parasitism of Hawaiian *Tetragnatha* spiders in a fragmented landscape. *Journal of Invertebrate Pathology* 84(2): 128-136.
- Vandergast, A.G. 2002. Ecology and genetics of habitat fragmentation in spiders of Hawaiian kipukas, Dissertation. ESPM, Division of Insect Biology. University of California, Berkeley.
- Vandergast, A.G. 1998. Changes in spider community structure across a habitat boundary (Abstract). In 23rd Annual Albert L. Tester Memorial Symposium (Manoa, Hawaii, USA; April 5-7, 1998). *Pacific Science* 53(1): 113-122.

#### **SELECTED CONTRIBUTED PAPERS**

- Vandergast, A.G, E. Lewallen, J. Deas Jr., A. J. Bohonak, and R. N. Fisher. 2006. Multi-taxa assessment of the genetic impacts of fragmentation and urbanization in southern California: Jerusalem crickets (Orthoptera Stenopemelmataidae). Oral Presentation. The Society for Conservation Biology Annual Meeting, San Jose, CA.
- Vandergast, A.G. and D. Weissman. 2005. Jerusalem! Cricket? 11 year update, or how morphology, cytology, behavior, and DNA can help with a recalcitrant group. Pacific Coast Entomological Society, California Academy of Sciences, San Francisco, CA.
- Vandergast, A.G. and D. Weissman. 2005. Evolution of acoustic behavior and diversification within the Jerusalem crickets (Orthoptera Stenopemelmataidae). Orthopterist's Society Meeting, Canmore CA. Poster Presentation.
- Vandergast, A.G., R.G. Gillespie and G.K. Roderick. 2004. Lava flow versus gene flow: habitat fragmentation and diversification in Hawaiian *Tetragnatha* Spiders. 16th International Congress of Arachnology. Gent, Belgium
- Vandergast, A.G. and R. Fisher 2003. Phylogeography of the mahogany Jerusalem cricket. California Population and Evolutionary Genetics Meeting. Irvine, CA
- Vandergast, A.G., D. Weissman, M. Caterino and R. Fisher 2003. Phylogeography of the mahogany Jerusalem cricket in Southern California. The Society for the Study of Evolution. Chico, CA.
- Vandergast, A.G., R.G. Gillespie and G.K. Roderick. 2001. The genetic impacts of habitat fragmentation: lessons from Hawaiian kipuka. *The Society for Conservation Biology*. Hilo, HI

**TEACHING EXPERIENCE**

2002- 2004            Advisor. Undergraduate Research. San Diego State University

Summer 2002            Lecturer. General Biology. San Diego State University

Spring 2002            Laboratory Instructor. General Biology. Cuyamaca College

Spring 2001            Graduate Teaching Supervisor. Urban Environmentalism. U.C. Berkeley

Fall 1998                Laboratory Instructor. General Biology. University of Hawaii, Manoa

1996                      Instructor of Environmental Science (K-12). Orange County Marine Institute

Fall 1994                Undergraduate Teaching Assistant. Ecology. U.C. San Diego

Spring 1994            Undergraduate Teaching Assistant. General Biology. U.C. San Diego

**SELECTED GRANTS, FELLOWSHIPS AND AWARDS**

2002-2004            National Science Foundation Postdoctoral Fellowship in Bioinformatics

2001                      Forest Entomology Award. Insect Biology, UC Berkeley

2000                      Sigma Xi Grants in Aid of Research Award

2000                      Edward Steinhaus Memorial Award. Insect Biology, UC. Berkeley

2000                      Taussig Memorial Endowment Fellowship. Graduate Division, U.C. Berkeley

1997-2000            Graduate Fellowship. EECB, University of Hawaii

1997-1998            Student Research Award. EECB, University of Hawaii

1996-1997            Graduate Fellowship. Research Corporation, University of Hawaii