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Sacha N. Vignieri
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EDUCATION

University of Washington, (2005) Zoology, PhD
University of California, Berkeley (1993) Integrative Biology, BA

POST-DOCTORAL RESEARCH

University of California President's Fellow (2006-2007) University of California, San Diego, Division of Biological Sciences
Leverhulme Fellow, University of Sussex, (2005-2006) Centre for the Study of Evolution

DOCTORAL RESEARCH

University of Washington (1998-2005), Department of Zoology, Influence of habitat heterogeneity on population genetic structure and ecology in the Pacific jumping mouse.

OTHER RESEARCH EXPERIENCE

University of Washington (1996-1998) School of Fisheries, Research assistant
Population structure of the northern fur seal
NOAA, National Marine Mammal Laboratory (1996), Field research assistant
Population and foraging ecology of Pribilof Island northern fur seals
University of Washington, (1995) Wildlife Biology, Field research assistant
Den site selection of northern flying squirrels
University of California, Berkeley (1993-1994), Integrative Biology, Field research assistant
Ecological interactions of two species of Pteropodid bats in the Samoan Islands
University of California, Berkeley (1992-1993), Research assistant, Field Station for Behavioral Research Behavioral endocrinology of spotted hyenas

TEACHIING ASSISTANTSHIPS AND LECTURES

Teaching assistantships, University of Washington: Biogeography (1999-2001), Vertebrate Zoology (1998).
Tutorials, University of Sussex: Topics in Evolutionary Theory (2006)
Guest lectures, University of Washington: Biogeography, Conservation Biology, Mammalogy (2001-2004).

DEPARTMENTAL AND SCIENTIFIC SOCIETY SERVICE

University of Washington, Zoology/Biology Department: Faculty appointments committee (2003), Graduate program committee (2002-2003), Graduate representative to the faculty (2001), Organizer of Zoology graduate student symposium (1999), Burke Museum mammalian diversity outreach program (2001-2003).
American Society of Mammalogists: International relations committee (2000-present), Conservation of land mammals committee (2000-present), Honoraria committee (2005-present).

INVITED SEMINARS

(1) Streams over mountains: influence of riparian connectivity on gene flow in the Pacific jumping mouse (*Zapus trinotatus*) Anna M. Jackson Award presentation, American Society of Mammalogists (2005). **(2)** Importance of riparian connectivity to gene flow in the Pacific jumping mouse (*Zapus trinotatus*). Cooperative fish and wildlife research unit seminar series, Washington State Department of Natural Resources. (2005). **(3)** Gene flow in the Pacific jumping mouse (*Zapus trinotatus)*: the connection between ecological mechanisms and patterns of genetic structure, Evolution seminar series, Centre for the Study of Evolution, University of Sussex (2006).

PRESENTATIONS AT SCIENTIFIC MEETINGS

(1) Streams over mountains: influence of riparian connectivity on gene flow in the Pacific jumping mouse (*Zapus trinotatus*), British Population Genetics Group (2005). **(2)** Understanding connectivity in patchy environments, limited gene-flow and unexpected migration patterns in the Pacific jumping mouse, *Zapus trinotatus*, Society for Conservation Biology (2004). **(3)** Dispersal as a driver? Effects of local processes on regional patterns in the Pacific jumping mouse (*Zapus trinotatus*), Ecological Society of America (2004). **(4)** Effects of habitat restricted gene-flow in a patchily distributed species, the Pacific jumping mouse (*Zapus trinotatus*), Society for the Study of Evolution (2004). **(5)** Does habitat heterogeneity restrict gene-flow? Fine scale genetic structure in the Pacific jumping mouse (*Zapus trinotatus*), American Society of Mammalogists (2004). **(6)** Can we predict range wide effects from local results: hierarchical population structure in the Pacific jumping mouse, American Society of Mammalogists (2003). **(7)** Can local results predict regional effects: hierarchical population structure in Pacific jumping mice, Society for Conservation Biology/British Ecological Society (2002). **(8)** Connections between hierarchical population levels, American Society of Mammalogists (2001). **(9)** Predicting patch occurrence across the geographic ranges of four small mammals in Washington, Pacific Ecology Conference (2000). **(10)** Predicting patch occurrence across the geographic ranges of four small mammals in Washington, American Society of Mammalogists (2000).

AWARDS

University of California President's Fellowship (2006-2007) $40,000, Leverhulme Trust Visiting Scholar Fellowship (2005-2006) £18,100, Anna M. Jackson award-American Society of Mammalogists (2005) $750, U.S. Environmental Protection Agency Science To Achieve Results (EPA STAR) Fellowship (2003-2006) $100,000, British Ecological Society scholarship for attendance at joint meeting of BES and Society for Conservation Biology (2002) $175, Department of Biology travel award (2002) $450, Richard C. Snyder Award (2002 and 1999) $950, American Society of Mammalogists grant in aid of research (2001 and 2002) $2000, Sigma Xi grant in aid of research (2000) $900.

PROFESSIONAL SOCIETY AFFILIATIONS

American Society of Mammalogists, Ecological Society of America, Society for the Study of Evolution, Society for Conservation Biology

REVIEWER FOR

American Naturalist, Animal Conservation, Biological Conservation, Conservation Biology, Conservation Genetics

MAJOR PUBLICATIONS

Vignieri SN, EM Hallerman, BJ Bergstrom, DJ Hafner, AP Martin, P Devers, P Grobler, and N Hitt (2006) Mistaken view of taxonomic validity undermines conservation of an evolutionarily distinctive mouse: A response to Ramey et al. *Animal Conservation* 9, 237-243.

Vignieri SN (2005) Streams over mountains: influence of riparian connectivity on gene flow in the Pacific jumping mouse (*Zapus trinotatus)*. *Molecular Ecology* 14, 1925-1937.

Vignieri SN (2003) The isolation and characterization of eight highly variable microsatellite markers in the Pacific jumping mouse (*Zapus trinotatus*). *Molecular Ecology Notes* 3, 638-640.

Drea CM, **SN Vignieri**, and SE Glickman, (2002) Responses to olfactory stimuli in spotted hyenas (*Crocuta crocuta*): I. Investigation of environmental odors. *Journal of Comparative Psychology* 116, 331-341.

Drea CM, **SN Vignieri**, HS Kim, ML.Weldele, and SE Glickman, (2002):II. Discrimination of conspecific scent. *Journal of Comparative Psychology* 116, 342-349.

Hoekstra HE, JM Hoekstra, D Berrigan, **SN Vignieri**, A Hoang, CE Hill, P Beerli, and JG

Kingsolver (2001) Strength and tempo of directional selection in the wild. *Proceedings of the National Academy of Sciences* 98**,** 9157-9160.

Kingsolver JG, HE Hoekstra, JM Hoekstra, D Berrigan, **SN Vignieri**, CE Hill, A Hoang, P Gibert, P Beerli (2001) The strength of phenotypic selection in natural populations. *The American Naturalist* 157, 245-261.

Kingsolver JG, HE Hoekstra, JM Hoekstra, D Berrigan, **SN Vignieri**, CE Hill, A Hoang, P Gibert, P Beerli (1999) The strength of phenotypic selection in natural populations: A review. *American Zoologist* 39, 9A-10A.

MAJOR PUBLICATIONS IN PROCESS

Vignieri SN (2006 in review *Molecular Ecology*) Cryptic behaviors, inverse genetic landscapes, and spatial avoidance of inbreeding in the Pacific jumping mouse.

Vignieri SN (2006 in prep *Proceedings of the Royal Society B*) Flood impacts in the riparian Pacific jumping mouse: founder effects and the genetic cost of flood regime alteration.

Yang HP, **SN Vignieri**, D Waxman (2006 in prep *The American Naturalist*) Sex and selfing under disruptive selection

OTHER PUBLICATIONS

Vignieri SN (2006) *Rattus spp.* in Boersma, P. D., S. H. Reichard, and A. van Buren editors. *Invasive species in the Pacific Northwest*, Seattle and London, University of Washington Press.

Vignieri SN (2006) *Sus spp.* in Boersma, P. D., S. H. Reichard, and A. van Buren editors. *Invasive species in the Pacific Northwest*. Seattle and London, University of Washington Press.