

CURRICULUM VITAE

JEB PITKIN OWEN

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EMPLOYMENT

Assistant Professor - Department of Entomology, Washington State University, 2007 – Present
Research Assistant - Department of Entomology, University of California, Riverside, 2005 – 2007
Teaching Assistant - Department of Entomology, University of California, Riverside, 2001 – 2005

EDUCATION

UNIVERSITY OF CALIFORNIA - RIVERSIDE, Riverside, California.

Doctor of Philosophy in Entomology, 2007

Major: medical & veterinary entomology Minors: parasitology and insect ecology

Advising committee: Drs. Bradley A. Mullens (chair), Richard Stouthamer and Marlene Zuk

“Interaction of the Host Immune Response and Population Dynamics of the Northern Fowl Mite, *Ornithonyssus sylviarum*, on White Leghorn Hens”

UNIVERSITY OF CALIFORNIA - RIVERSIDE, Riverside, California.

Master of Science in Entomology, 2002

Advising committee: Drs. Bradley A. Mullens (chair), Ring T. Cardé and Jocelyn G. Millar

“Factors Involved in the Orientation Behavior of the Northern Fowl Mite (*Ornithonyssus sylviarum*)”

UNIVERSITY OF COLORADO, Boulder, Colorado

Bachelor of Arts in Environmental, Population and Organismal Biology, 1997

Bachelor of Arts in English, 1997

FUNDING AWARDS

2009 USDA-AFRI (\$255,952) “Origin and Spread of Northern Fowl Mite: a landscape genetics approach”
(PI – Jeb Owen)

2009 WSU New Faculty Seed Grant (\$16,900) “Testing Effects of Host Variation on Development, Survival, and Fecundity of the Tick *Dermacentor andersoni*” (PI – Jeb Owen)

2005 USDA-NRI, Co-Author, "Are Ectoparasite Population Dynamics Governed by Host Immunity?"
(PIs - Bradley Mullens and Carol Cardona)

1999 University of California Graduate Student Fellowship (\$ 27,184)

TEACHING

Instructor: Galapagos Islands: An Adaptive Landscape (Honors College 390) WSU fall 2010
Instructor: Ecology and Evolution of Disease (ENTO 593) WSU spring 2008, fall 2010
Instructor: Medical and Veterinary Entomology (ENTO 448/548) WSU fall 2008-2010
Instructor: Entomology Seminar (ENTO 593) WSU fall 2008
Teaching Assistant: Parasitology, (BIOL 157/157L) UC Riverside, fall 2002-2004
Teaching Assistant: Insect Pathology, (ENTO 231/231L) UC Riverside, spring 2004
Teaching Assistant: Insect Ecology, (ENTO 127) UC Riverside, winter 2002
Teaching Assistant: General Entomology, (ENTO 100) UC Riverside, fall 2001

PUBLICATIONS

(Published)

- Owen, J.P.**, Nelson, A.C., Clayton, D.H. (2010) Ecological immunology of bird-ectoparasite systems. *Trends in Parasitology*. ([doi:10.1016/j.pt.2010.06.005](https://doi.org/10.1016/j.pt.2010.06.005))
- King, M.O., **Owen, J.P.**, Schwabl, H.G. (2010) Are Maternal Antibodies Really that Important? The Timing of Humoral Immunological Independence in Nestling House Sparrows (*Passer domesticus*). *Public Library of Science, One*. 5 (3): e6939.
- Petersen, W.H., Zack, R.S., Dykstra, E.A., **Owen, J.P.** (2010) New distribution records of mosquitoes in Eastern Washington State. *Journal of the American Mosquito Control Association*. 26 (1): 88-90
- Huber, S.K., **Owen, J.P.**, Koop, J.A., King, M.O., Grant, P.R., Grant, R., Clayton, D.H. (2010) Ecoimmunity in Darwin's Finches: Invasive Parasites Trigger Acquired Immunity in the Medium Ground Finch (*Geospiza fortis*). *Public Library of Science One* 5(1): e8605.
- Owen, J.P.**, Delany, M.E., Cardona, C.J., Bickford, A., Mullens, B.A. (2009) Host inflammatory response governs fitness in an avian ectoparasite, the northern fowl mite (*Ornithonyssus sylviarum*). *International Journal for Parasitology* 39 (7): 789-799.
- Mullens, B.A., **Owen, J.P.**, Kuney, D.R., Szijj, C.E., Klingler, K.A. (2009) Temporal changes in distribution, prevalence, intensity of northern fowl mite (*Ornithonyssus sylviarum*) parasitism in commercial caged laying hens, with a comprehensive economic analysis of parasite impact. *Veterinary Parasitology* 160: 116-133.
- Owen, J.P.**, Delany, M.E., Cardona, C.J., and Mullens, B.A. (2008) MHC haplotype involvement in avian resistance to an ectoparasite. *Immunogenetics*. 60 (10): 621-631.
- Mullens, B.A., **Owen, J.P.**, Kuney, D.R., Mench, J.A. and O'Sullivan, N. (2007) Host-Parasite Relationships, Ectoparasite Control Concerns, and the Changing Animal Welfare Paradigm: Lessons from a Chicken House. *Proceedings National Poultry Breeders Roundtable*.
- Owen, J.P.** and Clayton, D.H. (2007) Where are the parasites in the PHA response? *Trends in Ecology and Evolution*. 22 (5): 228-229.
- Mullens, B.A., Cardona, C.J., McClellan, L., Szijj, C.E., **Owen, J.P.** (2006) *Culicoides bottimeri* as a vector of *Haemoproteus lophortyx* to quail in California, USA. *Veterinary Parasitology* 140 (1-2): 35-43.
- Owen, J.P.**, Mullens, B.A., Justus, K.A. and Cardé, R.T. (2005) Northern fowl mite orientation in a thermal gradient and evidence for idiothetic course control. *Physiological Entomology* 30 (3): 293-302.
- Mullens, B.A., **Owen, J.P.**, Heft, D.E. and Sobek, R.V. (2005) *Culicoides* and other biting flies on the Palos Verdes peninsula of Southern California, and their possible relationship to equine dermatitis. *Journal*

of the American Mosquito Control Association 21(1): 90-95.

Owen, J.P. and Mullens, B. A. (2004) Influence of heat and vibration on the movement of the northern fowl mite (Acari: Macronyssidae). *Journal of Medical Entomology* 41(5): 865-872.

McGlynn, T.P. and **Owen, J.P.** (2002) Food supplementation alters caste allocation in a natural population of *Pheidole flavens*, a dimorphic leaf-litter dwelling ant. *Insectes Sociaux* 49: 8-14.

(In Preparation)

* Gibbs, A.M., Scoles, G., Brown, W., **Owen, J.P.** (2010) Effects of host immunity and *Anaplasma marginale* infection on the fitness of the Rocky Mountain Wood Tick (*Dermacentor andersoni*). Submission to International Journal for Parasitology.

* Mullens, B.A., **Owen, J.P.**, Chen, B. (2010) Beak condition and cage density determine intensity and spatial distribution of *Menacanthus stramineus* and *Ornithonyssus sylviarum* infestations on caged laying hens. Submission to Parasitology.

INVITED TALKS

2010 USDA Awardees Meeting (Washington D.C.)

2010 Entomological Society of America, Pacific Branch (Boise, ID)

Symposium: New Directions in IPM for Structural, Veterinary, and Public Health Pests

2010 Department of Biology; Gonzaga University (Spokane, WA)

2009 Department of Biology; University of Cincinnati

2008 American Society of Parasitologists (Arlington, TX)

Symposium: Evolutionary Ecology of Ectoparasites

2007 Department of Biology; University of Utah

2007 Annual Meeting of the Poultry Institute (Puyallup, WA)

2006 XII International Congress of Acarology (Amsterdam, The Netherlands)

1. Symposium: Diversity and Ecology of Acari Associated with Vertebrates

2. Symposium: Recognition Systems in Mites and Ticks

2005 Southern California Entomological Society (Spring meeting, Arboretum, Pasadena, CA)

OTHER PRESENTATIONS (first author)

2006 Livestock Insect Workers Conference (Amarillo, TX) *talk*

2004 XII International Congress of Entomology (Brisbane, Australia) *poster*

2004 Society for Vector Ecology (Boston, MA) *talk*

2004 Entomological Society of America (Salt Lake City, UT) *poster*

2001 Entomological Society of America (San Diego, CA) *talk*

2001 Livestock Insect Workers Conference (Cody, WY) *talk*

PROFESSIONAL SERVICE

Manuscripts reviewed: Physiological Entomology, *Journal of Medical Entomology*, *Environmental Entomology*, *Journal of Economic Entomology*, *Emu-Austral Ornithology*, *Experimental and Applied Acarology*, *Veterinary Immunology and Immunopathology*; *Acarologia*; *Molecular Ecology Resources*, *Naturwissenschaften*

2009 Panel member for USDA-AFRI "Rapid Response" funding program

2009 – present ESA (Pacific Branch) Awards canvassing chair

2008 – present Panel member for Henry and Sylvia Richardson Research Grant (ESA)

2004 Student symposium co-organizer for annual meeting of Society for Vector Ecology (Boston, MA)

PROFESSIONAL SOCIETIES

Entomological Society of America
Society for Vector Ecology
American Association of Veterinary Parasitologists
Gamma Sigma Delta - honor society of agriculture

AWARDS

2006 President's Prize for Outstanding Student Presentation, Section D
Annual meeting of Entomological Society of America (Indianapolis, Indiana)

2005 Outstanding Student Presentation, Ph.D.
Annual student presentation day, Entomology Department (University of California, Riverside)

2002 Outstanding Teaching Assistant
College of Natural and Agricultural Sciences (University of California, Riverside)

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