

MARCEL HOLYOAK: CURRICULUM VITAE

Last updated December 20th, 2008

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Education

- 1985-89 Imperial College, University of London, U.K.
Bachelor of Science, with honors, in biology.
- 1990-92 Imperial College, University of London, U.K. Ph.D. in ecology.
Dissertation title: 'The detection of density dependence in insect populations'.

Employment

- 1988 Research assistant, Imperial College at Silwood Park, U.K.
(Integrated pest management).
- 1989 Graduate research assistant, Imperial College at Silwood Park, U.K. (Behavioral bioassays to investigate the effects of antifeedant compounds on aphid feeding).
- 1992-1994 Postdoctoral Researcher, NERC Centre for Population Biology, Imperial College at Silwood Park, U.K.
- 1994-1995 Postdoctoral Researcher, Center for Ecology, Evolution and Behavior, University of Kentucky.
- 1995-June 2000 Assistant Research Entomologist and Lecturer, Department of Entomology, University of California, Davis.
- July 2000-June 2002 Assistant Professor in the Department of Environmental Science and Policy and College of Agricultural and Environmental Sciences at the University of California, Davis.
- July 2002-June 2006 Associate Professor in the Department of Environmental Science and Policy and College of Agricultural and Environmental Sciences at the University of California, Davis.
- July 2006 onwards Professor in the Department of Environmental Science and Policy and College of Agricultural and Environmental Sciences at the University of California, Davis.
- Jan.-July 2007 Research Fellow at Institute for Advanced Studies at the Hebrew University in Jerusalem, Israel, January-July 2007.

Grants and Contracts

Holyoak, M. and S. P. Harrison. Multi-species metapopulation dynamics: experiments in a model systems. \$150,000 over 3 years from 1 Oct. 1996 (NSF: DEB-9629876).

Grants and Contracts (continued)

- Holyoak, M. Development of an interim management plan for the threatened Valley Elderberry Longhorn Beetle in the American River Parkway. Contract from Sacramento Area Flood Control Authority (SAFCA). \$8068, 9/1/2001 to 3/31/2003.
- Holyoak, M. Valley Elderberry Longhorn Beetle Habitat Management Plan. Contract from Sacramento Area Flood Control Authority (SAFCA) for matching funds and a National Fish and Wildlife Foundation Challenge Grant. \$193,581 in 3 separate contracts in period 5/1/2002 to 9/31/2008.
- Holyoak, M. and A. Hastings. QEIB: Using phase dynamics and a model experimental system to understand the effects of extrinsic variability on predator and prey metapopulations. NSF-DEB 0213026 \$274,708, 7/1/2002 to 6/30/2005.
- Holyoak, M. QEIB: Island Biogeography and Metacommunity Dynamics of Food Webs—Theory and Experiments in a Model System. NSF-DEB 0414465. \$400,978 8/1/2004 to 7/31/2008.
- Holyoak, M. Monitoring Elderberry and VELB for the Arden Parallel Force Main Mitigation Site, The American River Parkway, Sacramento, CA. Contract with Sacramento County Regional Sanitation District. \$134,904, 1/1/2005 to 12/31/2009.
- Holyoak, M. Pruning and the Valley Elderberry Longhorn Beetle. Contract with CALTRANS. \$15,000, 6/15/2005 to 3/30/2006.
- Holyoak, M. Improving mitigation for the Valley Elderberry Longhorn Beetle. Contract with CALTRANS. \$110,400, 6/15/2005 to 6/30/2007.
- Holyoak, M. The effects of construction activities on Valley Elderberry Longhorn Beetle habitat. Contract with CALTRANS. \$309,047, 12/31/2005 to 12/30/2008.
- Karban, R. and Holyoak, M. LTREB - Understanding Food Web Complexity by Linking Long-Term Data, Multiple Causes and a Spatial Approach. NSF-DEB 0639885. \$295,410, 01/30/2007 to 1/29/2012.
- Holyoak, M. Monitoring for the Valley Elderberry Longhorn Beetle. US Fish and Wildlife Service. 11/15/2007-11/15/2008, \$35,000.
- Holyoak, M. and Kelsey, T.R. An online population database for tricolored blackbird monitoring. California Department of Fish and Game funds routed through the Center for Population Biology at UC-Davis. 3/1/2008 to 6/30/2009, \$20,002.

Articles Submitted for Publication

- Davies, K. F., **M. Holyoak**, K. A. Preston, V. A. Offeman and Q. Lum. In review. Spatial heterogeneity increases species diversity. *Journal of Animal Ecology*. Submitted October 2008.
- Holyoak, M.**, S. Talley Theresa, and S. E. Hogle. In Press. How effective are current mitigation practices for imperiled species? A case study of the threatened valley elderberry longhorn beetle. *Journal of Insect Conservation*.

Peer-Reviewed Publications (in reverse chronological order)

57. Vaghti, M., **M. Holyoak**, A. Williams, T. Talley, A. Fremier, and S. Greco. 2009. Understanding the Ecology of Blue Elderberry to Inform Landscape Restoration in Semiarid River Corridors. *Environmental Management* **43**:28-37.

Peer-Reviewed Publications (cont.)

56. **Holyoak, M.**, R. Casagrandi, R. Nathan, E. Revilla, and O. Spiegel. 2008. Trends and missing parts in the study of movement ecology. *Proceedings of the National Academy of Sciences* **105**:19060-19065.
55. Nathan, R., W. M. Getz, E. Revilla, **M. Holyoak**, R. Kadmon, D. Saltz, and P. E. Smouse. 2008. A movement ecology paradigm for unifying organismal movement research. *Proceedings of the National Academy of Sciences* **105**:19052-19059.
54. **Holyoak, M.** and T. M. Mata. 2008. Metacommunities. Pages 2313-2318 in J. Sven Erik and F. Brian, editors. *Encyclopedia of Ecology*. Academic Press, Oxford.
53. **Holyoak, M.** 2008. Connectance and Connectivity. Pages 737-743 in J. Sven Erik and F. Brian, editors. *Encyclopedia of Ecology*. Academic Press, Oxford, UK.
52. Koch-Munz, M. and **M. Holyoak**. 2008. An evaluation of the effects of soil characteristics on mitigation and restoration involving blue elderberry, *Sambucus mexicana*. *Environmental Management*, 42: 49-65.
51. Schlesinger, M., P. Manly, and **M. Holyoak**. 2008. Distinguishing stressors acting on landbird communities in an urbanizing environment. *Ecology*, 89: 2302-2314.
50. **Holyoak, M.** and M. Koch-Munz. 2008. The effects of site conditions and mitigation practices on success of establishing the Valley elderberry longhorn beetle and its host plant blue elderberry. *Environmental Management*, 42: 444-457.
49. Haddad, N. M., M. Holyoak, T. M. Mata, K. F. Davies, B. A. Melbourne, and K. Preston. 2008. Species' traits predict the effects of disturbance and productivity on diversity. *Ecology Letters* 11:348-356.
48. Talley, T. S., E. Fleishman, **M. Holyoak**, D. D. Murphy, and A. Ballard 2007. Rethinking a rare-species conservation strategy in an urban landscape: The case of the valley elderberry longhorn beetle. *Biological Conservation* 135:21-32.
47. Melbourne, B. A., H. V. Cornell, K. F. Davies, C. J. Dugaw, S. Elmendorf, A. L. Freestone, R. J. Hall, S. Harrison, A. Hastings, M. Holland, **M. Holyoak**, J. Lambrinos, K. Moore, and H. Yokomizo 2007. Invasion in a heterogeneous world: resistance, coexistence or hostile takeover? *Ecology Letters* 10:77-94.
46. Talley, D. M., Huxel G.R., and **M. Holyoak** 2006. Connectivity at the land-water interface. Pages 97-129 in K. Crooks and M. Sanjayan, editors. *Connectivity conservation*. Cambridge University Press, Cambridge, U.K.
45. Ellis, A. M., L. P. Lounibos, and **M. Holyoak**. 2006. Evaluating the long-term metacommunity dynamics of tree hole mosquitoes. *Ecology* 87:2582-2590.
44. **Holyoak, M.**, M. Loreau, D. R. Strong. 2006. Neutral Community Ecology. Introduction to Special Feature and Special Feature edited by the same authors. *Ecology* 87: 1368-1369.
43. **Holyoak, M.** and M. Loreau. 2006. Reconciling empirical ecology with neutral community models. *Ecology* 87: 1370-1377.
42. Talley Theresa S., **M. Holyoak**, D. A. Piechnik. 2006. The effects of road dust on the federally threatened valley elderberry longhorn beetle. *Environmental Management* 37: 647-658.
41. **Holyoak, M.**, and S. P. Lawler. 2005. The contribution of laboratory experiments on protists to understanding population and metapopulation dynamics. *Advances in Ecological Research* 37:245-271.

Peer-Reviewed Publications (cont.)

40. **Holyoak, M.**, M. A. Leibold, and R. D. Holt, editors. 2005. *Metacommunities: Spatial Dynamics and Ecological Communities*. University of Chicago Press, Chicago, IL. Includes five chapters with Holyoak as a lead or coauthor (listed separately below, numbers 35-39) and four introductory or summary sections. The book was independently peer reviewed by the press and separately by the subject editors.
39. **Holyoak, M.**, M. A. Leibold, N. M. Mouquet, R. D. Holt, and M. F. Hoopes. 2005. *Metacommunities: A framework for large-scale community ecology*. Pages 1-31 in M. Holyoak, M. A. Leibold, and R. D. Holt, editors. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL.
38. Hoopes, M. F., R. D. Holt, and **M. Holyoak**. 2005. The effects of spatial processes on two species interactions. Pages 35-67 in M. Holyoak, M. A. Leibold, and R. D. Holt, editors. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL.
37. Chase, J. M., P. Amarasekare, K. Cottenie, A. Gonzalez, R. D. Holt, **M. Holyoak**, M. F. Hoopes, M. A. Leibold, M. Loreau, N. Mouquet, J. B. Shurin, and D. Tilman. 2005. Competing theories for competitive metacommunities. Pages 335-354 in M. Holyoak, M. A. Leibold, and R. D. Holt, editors. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL.
36. Leibold, M. A., R. D. Holt, and **M. Holyoak**. 2005. Adaptive and coadaptive dynamics in metacommunities: Tracking environmental change at different spatial scales. Pages 439-464 in M. Holyoak, M. A. Leibold, and R. D. Holt, editors. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL.
35. Holt, R. D., **M. Holyoak**, and M. A. Leibold. 2005. Future directions in metacommunity ecology. Pages 465-490 in M. Holyoak, M. A. Leibold, and R. D. Holt, editors. *Metacommunities: spatial dynamics and ecological communities*. University of Chicago Press, Chicago, IL.
34. Amarasekare, P., M. F. Hoopes, N. Mouquet, and **M. Holyoak**. 2004. Mechanisms of coexistence in competitive metacommunities. *The American Naturalist* **164**: 310-326.
33. Leibold, M. A., **M. Holyoak**, N. Mouquet, P. Amarasekare, J. M. Chase, M. F. Hoopes, R. D. Holt, J. B. Shurin, R. Law, D. Tilman, M. Loreau, and A. Gonzalez. 2004. The metacommunity concept: a framework for multi-scale community ecology. *Ecology Letters* **7**: 601-613.
32. Huxel G.R., **M. Holyoak**, T.S. Talley, and S. Collinge. 2003 Perspectives on the recovery of the threatened Valley Elderberry Longhorn Beetle. In: *California Riparian Systems: Habitat and Floodplain Processes, Management, and Restoration*. (ed. Faber, P.M.), pp. 457-462. Riparian Habitat Joint Venture, Picklewood Press, Mill Valley, CA.
31. Bolker, B., **M. Holyoak**, V. Krivan, L. Rowe, and O. Schmitz. 2003. Connecting theoretical and empirical studies of trait-mediated interactions. *Ecology* **84**:1101-1114.
30. Donahue, M. J., **M. Holyoak**, and C. Feng. 2003. Patterns of dispersal and dynamics among habitat patches varying in quality. *The American Naturalist* **162**:302-317.
29. Kreuder, C., J.A.K. Mazet, G.D. Bossart, T.E. Carpenter, **M. Holyoak**, M.S. Elie and S. Wright. 2002. Clinicopathologic features of suspected brevecotoxiosis in double-crested cormorants (*Phalacrocorax auritus*) along the Florida Gulf coast. *Journal of Zoo and Wildlife Medicine*, **33**, 8-15.

Peer-Reviewed Publications (cont.)

28. Dingle, H., and **M. Holyoak**. 2001. The evolutionary ecology of animal movement. *In: Evolutionary ecology: Concepts and case studies eds. C.W. Fox, D.A. Roff and D.J. Fairbairn.* Oxford University Press, Oxford, U.K.
27. Collinge, S.K., **M. Holyoak**, C.B. Barr, and J.T. Marty. 2001. Riparian habitat fragmentation and population persistence of the threatened valley elderberry longhorn beetle in central California. *Biological Conservation*, 100, 103-113.
26. **Holyoak, M.** 2000. Effects of nutrient enrichment on predator-prey metapopulation dynamics. *Journal of Animal Ecology*, 69, 985-997.
25. **Holyoak, M.** 2000. Habitat subdivision causes changes in food web structure. *Ecology Letters*, 3 (6), 509-515.
24. **Holyoak, M.**, S.P. Lawler, and P.H. Crowley. 2000. Predicting extinction: Progress with an individual-based model of protozoan predators and prey. *Ecology* 81, 3312-3329.
23. Amezcua, A.B., and **M. Holyoak**. 2000. Empirical evidence for predator-prey source-sink dynamics. *Ecology*, 81(11), 3087-3098.
22. **Holyoak, M.** 2000. Habitat patch arrangement and metapopulation persistence of predators and prey. *The American Naturalist*, 156 (4), 378-389.
21. **Holyoak, M.** 2000. Comparing parasitoid-dominated food webs with other food webs: problems and future promises. Pages 184-197 *in: Parasitoid Population Biology eds. M.E. Hochberg and A.R. Ives.* Princeton University Press, Princeton, N.J.
20. **Holyoak, M.**, and C. Ray. 1999. A roadmap for metapopulation research. *Ecology Letters*, 2, 273-275.
19. Lawler, S.P., D. Dritz, T. Strange, and **M. Holyoak**. 1999. Effects of introduced mosquitofish and bullfrogs on a threatened frog. *Conservation Biology*, 13, 613-622.
18. **Holyoak, M.**, and S. Sachdev. 1998. Omnivory and the stability of simple food webs. *Oecologia*, 117, 413-419.
17. Hawkins, B.A., and **M. Holyoak**. 1998. Transcontinental crashes of insect populations? *The American Naturalist* 152, 480-484.
16. Yela, J.L., and **M. Holyoak**. 1997. Effects of moonlight and environmental factors on light and bait trap catches of noctuid moths (Lepidoptera: Noctuidae). *Environmental Entomology* 26, 1283-1290.
15. **Holyoak, M.**, V. Jarosik, and I. Novak. 1997. Weather-induced changes in moth activity bias measurement of long-term population dynamics from light trap samples. *Entomol. Exp. Appl.* 83, 329-335.
14. **Holyoak, M.**, and S.P. Lawler. 1996. Persistence of an extinction-prone predator-prey interaction through metapopulation dynamics. *Ecology* 77, 1867-1879.
13. **Holyoak, M.**, and S.P. Lawler. 1996. The role of dispersal in predator-prey metapopulation dynamics. *Journal of Animal Ecology* 65, 640-652.
12. **Holyoak, M.**, and S.R. Baillie. 1996. Factors influencing detection of density dependence in British birds: I. Population trends. *Oecologia* 108, 47-53.
11. **Holyoak, M.**, and S.R. Baillie. 1996. Factors influencing detection of density dependence in British birds: II. Longevity and population variability. *Oecologia* 108, 54-63.

Peer-Reviewed Publications (cont.)

10. **Holyoak, M.** 1994. Comment: appropriate time-scales for identifying lags in density dependent processes. *Journal of Animal Ecology* 63, 479-483.
9. **Holyoak, M.** 1994. Identifying delayed density dependence in time series data. *Oikos* 70, 296-304.
8. Seddon, M.B., and **M. Holyoak.** 1994. *Pupoides coenopictus* (Hutton, 1834) new to Tunisia. *Journal of Conchology* 35, 89.
7. **Holyoak, M.**, and J.H. Lawton. 1993. Comment arising from a paper by Wolda and Dennis: using and interpreting the results of tests for density dependence. *Oecologia* 95, 592-594.
6. **Holyoak, M.** 1993. The frequency of detection of density dependence in insect orders. *Ecological Entomology* 18, 339-347.
5. **Holyoak, M.** 1993. New insights into testing for density dependence. *Oecologia* 93, 435-444.
4. **Holyoak, M.**, and P.H. Crowley. 1993. Avoiding erroneously high levels of detection in combinations of semi-independent tests. *Oecologia* 95, 103-114.
3. **Holyoak, M.**, and J.H. Lawton. 1992. Detection of density dependence from annual censuses of bracken-feeding insects. *Oecologia* 91, 425-430.
2. Hardie, J., **M. Holyoak**, N.J. Taylor, and D.C. Griffiths. 1992. The combination of electronic monitoring and video-assisted observations of plant penetration by aphids and behavioural effects of polygodial. *Entomol. Exp. Appl.* 62, 223-239.
1. Hardie, J., **M. Holyoak**, J. Nicholas, S.F. Nottingham, J.A. Picket, J.A., L.J. Wadhams, and C.M. Woodcock. 1990. Aphid sex pheromone components: age-dependent release by females and species-specific male response. *Chemoecology* 1, 63-68.

Non Peer-Reviewed Publications

Holyoak, M. 2009. Editorial. *Ecology Letters* 12:1-1.

Holyoak, M. 2008. Book Review: Diverse perspectives on how to unite quantitative scaling patterns and mechanisms for biodiversity. *Scaling biodiversity* edited by D. Storch, P. A. Marquet, and J.H. Brown (2007). . *Ecology* 89:2364-2365.

Talley, T. S., D. Wright, and **M. Holyoak.** 2006. Assistance with the 5-Year Review of the Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*). United States Fish and Wildlife Service, Sacramento.
http://www.fws.gov/sacramento/es/documents/VELB_5yr_review_Talley_etal.pdf

Holyoak, M. 2003. Book Review: Turchin P. 2003. *Complex Population Dynamics: A Theoretical/Empirical Synthesis*. *Integrative and Comparative Biology* 43:479-479.

Holyoak, M. 2002. Book Review. Gardner, Robert H., W. Michael Kemp, Victor S. Kennedy, and John E. Petersen, editors. 2001. *Scaling relations in experimental ecology*. Columbia University Press, New York, New York. *Ecology*, 83(5), 1471-1472.

Holyoak, M. 1998. Book Review. *Population Dynamics in Ecological Space and Time*. Olin E. Rhodes, Jr., Ronald K. Chesser, and Michael H. Smith (eds). The University of Chicago Press, 1996. *American Scientist* 86, 88.

Reviews of Holyoak, M., M. A. Leibold, and R. D. Holt. 2005. Metacommunities: spatial dynamics and ecological communities. University of Chicago Press, Chicago, IL.

- Bruun, H. H. 2006. Holyoak, M., M. A. Leibold & R. D. Holt (Eds.), 2005. Metacommunities: Spatial Dynamics and Ecological Communities. University of Chicago Press, xi + 513 p., 15 x 23 cm, softcover, US\$38.00, ISBN 0-22635064-9. *Ecoscience* **13**:563-564.
- Driscoll, D. A. 2006. Metacommunities: Spatial Dynamics and Ecological Communities. *Austral Ecology* **31**:910-911.
- Fuller, M. M. 2006. In a World of Diversity, a Search for Unity. *Ecology* **87**:2681-2682.
- Gaston, K. J. 2006. Book Reviews. Metacommunities: Spatial Dynamics and Ecological Communities Edited by Marcel Holyoak, Matthew A. Leibold and Robert D. Holt xi + 513 pp., 23 x 15 x 3 cm, ISBN 0 226 35064 paperback, US\$ 38.00/GB£ 24.00, Chicago, IL, USA: The University of Chicago Press, 2005. *Environmental Conservation* **33**:175-176.
- Gross, M. 2006. Book Review: Metacommunities: Spatial dynamics and ecological communities by Marcel Holyoak, Mathew A. Leibold and Robert D. Holt. *History and Philosophy of the Life Sciences* **28**:111-112.
- Paine, R. T. 2006. Metacommunities. Spatial Dynamics and Ecological Communities. Marcel Holyoak, Mathew A. Leibold, and Robert D. Holt, editors. *Integrative and Comparative Biology*. **46**:347-.
- Pergl, J. 2007. M. Holyoak, M.A. Leibold, and R.D. Holt: Metacommunities: Spatial Dynamics and Ecological Communities. Book Review. *Folia Geobotanica* **42**:222.
- Urban, M. C. 2006. Conservation beyond Community. *Conservation Biology* **20**:1330-1332.

Graduate Students and Postdocs Trained

- K. Jun Bando, PhD about the population ecology and genetics of sea grasses and *Spartina*. Coadvised by Don Strong. Oct. 2000 to Sept. 2005. Currently a congressional Intern in Washington DC.
- Matthew Schlesinger. PhD. Effects of urbanization and fragmentation on bird communities in urban forest plots in Lake Tahoe, California. Oct. 2001 to February 2007. Works for The Nature Conservancy in New York State.
- Theresa S. Talley. PhD about the population and landscape ecology of the threatened Valley Elderberry Longhorn Beetle. Oct. 2000 to Sept. 2005. Postdoc'ing with me.
- Jenna Shinen. PhD. Community effects of an invasive intertidal mussel species. Oct 2002 to September 2007. Coadvised by Stephen Morgan. Postdoc in Chile.
- Drew Talley. Postdoctoral Researcher and affiliated professional researcher. Jan 2002 to 2005. Research Coordinator for The Estuaries Foundation.
- Kendi F. Davies. Postdoctoral Researcher (Project Scientist). Jan 2005 December 2006. Faculty at University of Colorado, Boulder, CO.
- Theresa S. Talley. Postdoctoral Researcher. Oct. 2005 to present.
- Quenby Lum. PhD candidate. Studying the effects of soil and ecosystem processes on responses of serpentine plant communities to burning. Oct. 2000, degree expected 2009.

Graduate Students and Postdocs Trained (cont.)

Michele Buckhorn. PhD candidate. The effects of marine protected areas and fisheries on leopard grouper (a large fish species) in Baja, Mexico. Oct 2002, degree expected 2008. Coadvised by Peter Moyle.

Kim Preston. PhD candidate. Effects of community properties on the invisibility of ecological communities. Oct. 2003, degree expected 2008.

Melanie Gogol-Prokurat. PhD candidate. Effects of disturbance on the metapopulation dynamics and responses to fragmentation of rare plant species. Oct. 2003, degree expected 2008.

Tawny Mata. PhD candidate. Invasive species and metacommunity dynamics. Oct 2005, degree expected 2010.

Emil Aalto. PhD candidate. Project to be decided. Oct 2007, degree expected 2012.

Professional activities and Awards

- Editor-in-chief for *Ecology Letters* January 2009 onwards. Acting Editor-in-chief from Oct. to Dec. 2008. Member of the editorial board for *Ecology* February 2004 to July 2008
- Member of the editorial board of *The American Naturalist* July 2005 to August 2008.
- Member of the editorial board of *Ecology Letters*, July 2002 to April 2007
- Sub-editor for *Antenna*, the magazine of the Royal Entomological Society of London, 1991-1994.
- Member of "Faculty of 1000" (<http://www.f1000biology.com/>), January 2006 to August 2008. Published by BioMed Central, Faculty of 1000 Biology is an online research tool that highlights the most interesting papers in biology, based on the recommendations of over 1000 leading scientists worldwide. I am currently one of 13 faculty members for community and ecosystem ecology.
- Research Fellow at and member of a working group on "Movement Ecology" at the Institute for Advanced Studies at the Hebrew University in Jerusalem, Israel, January-July 2007.
- I have been a member of two working groups at the National Center for Ecological Analysis and Synthesis at Santa Barbara, CA. The last group addressed "The Meta-Community Concept: A Framework for Large Scale Community Ecology?" and was led by Mathew Leibold (U. of Chicago). During 2000-2001 I was a member of a working group, addressing "The Role of Individual-Scale Processes in Community-Level Dynamics: What are the Dynamically Relevant Organizational Scales for Predicting Community Dynamics?" The group was organized by Oswald Schmitz of Yale University.
- Recipient of "Ecology Professor of the Year", May 2001, June 2002, and June 2006, a prize awarded annually "In honor of an outstanding professor that donated extra time, energy and enthusiasm to the Graduate Group in Ecology and its students at the University of California at Davis". This Graduate Group in Ecology includes approximately 130 professors and 250 graduate students.
- Awarded The Murray Prize for Insect Physiology for the best undergraduate research project in entomology, Imperial College, University of London (1989).

Professional activities and Awards (cont.)

- External examiner for a Ph.D. candidate in Ecology, University of Helsinki, Finland (Feb. 1996), University of Miami, FL. (January 2003), and Dartmouth College, NH (April 2004).
- Reviewer of manuscripts for *The American Naturalist*, *The Auk*, *Behavioral Ecology*, *Biological Conservation*, *Biology Letters*, *Bulletin of Entomological Research*, *Conservation Biology*, *Conservation Ecology*, *Ecological Entomology*, *Ecological Modelling*, *Ecology*, *Ecology Letters*, *Entomologia Experimentalis et Applicata*, *Environmental Entomology*, *European Journal of Entomology*, *Experimental and Applied Acarology*, *Journal of Animal Ecology*, *Oecologia*, *Oikos*, *Proceedings of the U.S. National Academy of Sciences*, *Proceedings of the Royal Society of London (Biological Sciences)*, *Quarterly Review of Biology*, and *Theoretical Population Biology*. *Ad-hoc editor for Ecology 2001-2004*.
- Reviewer of undergraduate ecology texts for Blackwell, Oxford University Press, Elsevier and Sinauer.
- Member of the Ecological Society of America and Union of Concerned Scientists.
- Member of NSF Panel in Evolutionary and Population Ecology during Fall 2004, and Spring 2006 and 2007, and Doctoral Dissertation Improvement Grant panel during Spring 2003. Reviewer of grant applications for The National Science Foundation, The Natural Environment Research Council, U.K., the Czech Academy of Sciences, The Royal Society of London, Faculty of Science at Göteborg University, Sweden, and The Royal Society of New Zealand.
- Member of NSF Division of Environmental Biology's (DEB) Committee of Visitors advisory meeting 21-23 June 2006. The COV is a panel of 12 that gives feedback to NSF about how best to direct research resources. The program involves a comprehensive review of the success of DEB in funding research in ecology, evolution and systematics, and the business practices used by the programs. A public report came from this evaluation.
- Invited participant in "Forum" on NPR station KQED in San Francisco discussing the Endangered Species Act, its effectiveness, and some of the amendments proposed. February 15th 2006.
- Undertook a five-year review of the listing status of the federally threatened Valley Elderberry Longhorn Beetle for US Fish and Wildlife Service, led by Theresa Talley, a postdoctoral researcher in my lab and David Wright.
http://www.fws.gov/sacramento/es/documents/VELB_5yr_review_Talley_etal.pdf