

CURRICULUM VITAE

Rebecca Anne Waterworth, Ph.D.

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Personal History and Professional Experience

Educational Background

B. S. (2003) Environmental Science and Policy, Concentration: Environmental Plant Protection.
University of Maryland, College Park, MD *Summa cum laude*

M. S. (2005) Entomology. University of Maryland, College Park, MD (UMD).

Committee: Dr. Paula M. Shrewsbury, advisor, Thesis title: Overcoming Barriers to Predation: Effect of Alternative Management Practices on Predator-Herbivore Dynamics in Production Nurseries.

Ph. D. (2010) Entomology. University of California, Riverside, CA (UCR).

Committee: Dr. Jocelyn G. Millar, advisor, Dissertation title: Reproductive Biology of Mealybugs (Pseudococcidae) and Practical Applications of Their Sex Pheromones in California Nurseries.

Academic History

2002 – 2003: Laboratory assistant, Department of Entomology, University of Maryland, College Park, MD, Dr. Paula Shrewsbury (supervisor)

2003 – 2005: Graduate Research Assistant, Department of Entomology, University of Maryland, College Park, MD, Dr. Paula Shrewsbury (thesis advisor)

2005 – 2010: Graduate Student Researcher, Department of Entomology, University of California, Riverside, CA, Dr. Jocelyn Millar (dissertation advisor)

2010 – 2015: Postdoctoral Scholar, Department of Entomology, University of California, Riverside, CA, Drs. Jocelyn Millar and Richard Redak.

Sept-Dec 2012: Visiting Lecturer, California Polytechnic State University, San Luis Obispo, CA

2015 – present: Postdoctoral Associate, Department of Entomology, University of Maryland, College Park, MD, Dr. Paula M. Shrewsbury

Intensive Professional Training

National Academies Summer Institute on Scientific Teaching, Riverside, CA, 23-27 June 2014

Introduction to POGIL (Process Oriented Guided Inquiry Learning). 7 Oct. 2014, Riverside, CA

Parasitoid Identification Training, Brown Marmorated Stink Bug Working Group Meeting. 9-11 June 2015, College Park, MD

Courses taught

Entomological Topics; Colloquium (Graduate Level) (ENTM 788C), Co-instructor; Fall 2016 (at UMD) (24 students)

Course description: Outside speakers invited to visit entomology department every week to present their current research.

Responsibilities: Developed evaluation and grading system, edited blog posts written about each speaker submitted by students; evaluated peer reviews made by other students on those posts; blogs available on department's website

Insect Pests of Ornamentals and Turf (BSci 497), Teaching Assistant; Fall 2015 (at UMD)

Course description: The recognition, biology and management of insects and mites injurious to ornamental shrubs, trees, greenhouse crops, and turf. Emphasis on Integrated Pest Management (IPM).

Responsibilities: Lead one 3 hour laboratory section per week (14 students); developed weekly handouts and lab practicals; lectured about insect feeding damage, diagnosing pest problems, and pest identification; conducted field walks; graded assignments, including students' collections; organized teaching materials and updated teaching collection; held weekly office hours

Agricultural Entomology (PPSC 311, for agriculture majors), Lecturer; Fall 2012 (47 students) (at California Polytechnic State University, San Luis Obispo, CA)

Course description: The science of entomology as it relates to insects of importance in agriculture. Focus on the biology, ecology and identification of insects and mites important to California horticulture, field crops and landscapes.

Responsibilities: Developed two lectures and laboratory lecture and materials for two lab sections per week; taught insect physiology, morphology, applied ecology, and pest management; taught students to identify insects to order and family level; supervised teaching assistants, lead field collecting trips; developed and graded assignments

People, Pests, and Plagues (PPSC 110, for non-science majors), Lecturer; Fall 2012 (67 students) (at California Polytechnic State University, San Luis Obispo, CA)

Course description: Introduction to the science of entomology, focusing on insect identification, biology, ecology, and interactions with humans. Insect pest and beneficial species and their role in shaping how we live, work, and eat.

Responsibilities: Developed three lectures and materials for a discussion topic (three sections) per week; taught a general overview of many facets of entomology; supervised teaching assistants; wrote and graded assignments; held office hours.

Insect Behavior (ENTM162), Teaching Assistant; Fall 2008 (at UCR).

Course description: An analysis of the mechanisms that cause and control behavioral reactions of insects. Emphasizes ethological and physiological knowledge concerning orientation mechanisms, communication systems, learning, and the role of the nervous system in integrating behavior in insects.

Responsibilities: Developed and graded bi-weekly homework assignments; assisted in the development and grading of exams; held office hours weekly; lead review sessions prior to exams.

Molecular Biology, Systematics, and Behavior (Graduate Level) (ENTM202), Teaching Assistant; Winter 2006 (at UCR).

Course description: Introduces principles of molecular biology, systematics, and insect behavior. Topics included the use of molecular tools in Entomology, the application of systematics in understanding insect evolution, and behavior particular to insects and relevant to insect research.

Responsibilities: Assisted with the set-up of labs and discussions; held weekly office hours; proctored exams

Capstone in Environmental Science and Policy (ENSP400), Teaching Assistant; Spring 2005 (at UMD, 30 students).

Course description: Integration of physical, biological, and social sciences with applications to environmental science and policy. Problem-solving and multi-disciplinary case study evaluations pertinent to contemporary and future issues related to the environment.

Responsibilities: Graded term papers and exams; lead discussion sessions

Introduction to Environmental Science and Policy (ENSP 100), Teaching Assistant, Discussion; Fall 2004 (at UMD, 40 students)

Course description: Emphasis on scientific ways of knowing: the systems, cycles, flows, and interfaces that characterize the atmosphere, lithosphere, hydrosphere, and biosphere; the analysis of human impacts on these systems; and the nature of scientific uncertainty and methods of quantifying environmental processes.

Responsibilities: Lead two sections (20 students each) per week; developed materials used in discussion; assisted in the development, proctoring, and grading of exams

Other Contributions to Instructional Programs

Guest lecture, Introduction to Environmental Science and Policy, UMD, Nov. 2004;

“Biodiversity,” two lectures

Guest lecture, Insect Behavior, UCR, Dec. 2008; “Pheromone Communication,” two lectures

Guest lecture, Freshman Advising Seminar, UCR, Oct. 2009; “How did I get here?”

Guest lecture, Natural History of Insects, UCR, June 2014; “Insect Vectors of Human Disease”

Guest lecture, Ecology, McDaniel College, Sept. 2016; “Managed landscapes and pest management”

Guest lecture, Insects and Society, McDaniel College, Sept. 2016; “Insect Vectors and Human Disease: Historical Plagues”

Guest lecture, World of Biology, University of Maryland, April 2017; “Conservation Biology”

Co-advisor (with R. A. Redak), Research for Undergraduates:

Bridget Gonzalez, 2011, Effect of artificial herbivory on reproductive fitness of *Brassica tournefortii*. Lead mentor in all aspects of independent research project.

Bridget Gonzalez, 2014, Arthropod community survey using conventional and novel pit fall traps. Lead mentor in all aspects of independent research project.

Co-advisor (with P. M. Shrewsbury), Undergraduate Research:

Alexander Bier, 2015-2017, Survey of Maryland’s managed landscapes for *Trissolcus japonicus*, a parasitoid of brown marmorated stinkbug. Lead mentor in all aspects of independent research project.

Outreach Activities

University of Maryland, College Park

April 2015 – present:

- Insect Petting Zoo. Maryland Day. University of Maryland. 29 Apr. 2017; 30 Apr. 2016; 25 Apr. 2015.
- Assisted with one outreach (7th -8th grade) and two large community events at the Howard County Conservancy, “Monarch and Mojitos” (2015) and “Bugs and Brews” (2016) educating attendees about insects
- Led two beneficial insect walks at the Chevy Chase Club, Chevy Chase, MD

- Facilitated the Insect Pests and Biological Control laboratory sections of the Advanced Landscape Plant IPM PHC short course at UMD. Responsibilities included lab set up, lab sample preparations, and answering questions from participants

Merit Badge Counselor, Boy Scouts of America. Insect Study badge. Demonstrations and classes held on: January 31, May 14, and October 8, 2011, January 21, April 21, July 21, 2012 at Jurupa Mountains Discovery Center, Jurupa, CA.

University of California, Riverside

October 2006 – March 2015. Assisted with:

- 20 outreaches to educate students in local schools and libraries (K-12th grade) about entomology
- 10 large community events that featured insect education. Events included county fairs, fall festivals, Cub Scout presentations, Earth Day events, and regional Master Gardener classes
- 17 other campus events to promote the Department of Entomology at UCR, recruit prospective students, and to educate visitors about insects

University of Maryland, College Park

Spring 2000 – Spring 2005:

- Insect Petting Zoo. Maryland Day. 30 Apr. 2005.
- Led two demonstrations about entomology while visiting a local middle school
- Assisted with five demonstrations about periodical cicadas (*Magicicada* spp.) to pre-K and K-6th grade children and to library groups
- “Cicadamania.” Maryland Day. University of Maryland. 29 Apr. 2004.
- National Geographic Ultimate Explorer. Cicadamaniacs and Periodical Cicadas. Aired 21 May 2004.
- Agriculture Education. Maryland Day. Alpha Zeta at University of Maryland. April 2000-2003.

January 2002-2005 - Facilitated the Biological Control laboratory section of the Advanced Landscape Plant IPM PHC short course. Responsibilities included lab set up, lab sample preparations, and answering questions from participants

Research

Publications

Peer-reviewed (published)

- Rebecca A. Waterworth**, Lindsay J. Robinson, Richard A. Redak, and Joseph G. Morse. 2016. Evaluating the performance of *Aphytis melinus* (Hymenoptera: Aphelinidae) to manage an exotic species, *Acutaspis albopicta* (Hemiptera: Diaspididae). *Environ. Entomol.* 45: 83-93.
- Roger A. Burks, Jason L. Mottern, Nicole G. Pownall, **Rebecca Waterworth**, and Timothy D. Paine. 2015. First record of *Closterocerus chamaeleon*, parasitoid of the Eucalyptus Gall Wasp *Ophelimus maskelli* (Hymenoptera, Chalcidoidea, Eulophidae), in the New World. *ZooKeys* 504: 149.
- Roger A. Burks, Jason L. Mottern, **Rebecca Waterworth**, and Timothy D. Paine. 2015. First report of the eucalyptus gall wasp, *Ophelimus maskelli* (Hymenoptera: Eulophidae), an invasive pest on Eucalyptus, from the Western Hemisphere. *Zootaxa* 3926: 448-450.
- Remya Ramesh, Pandrangi Siva Swaroop, Rajesh G. Gonnade, Choppari Thirupathi, **Rebecca A. Waterworth**, Jocelyn G. Millar, and S. Srinivasa Reddy. 2013. Syntheses and

determination of absolute configurations and the biological activities of the enantiomers of the longtailed mealybug pheromone. *J. Org. Chem.* 78: 6281-6284.

Rebecca A. Waterworth, Lindsay J. Robinson, Joseph G. Morse, and Jocelyn G. Millar. 2012. Developmental biology of an exotic scale, *Acutaspis albopicta* (Hemiptera: Diaspididae). *J. Econ. Entomol.* 105: 2035-2044.

Rebecca A. Waterworth and Jocelyn G. Millar. 2012. Reproductive biology of *Pseudococcus maritimus* (Hemiptera: Pseudococcidae). *J. Econ. Entomol.* 105: 949-956.

Rebecca A. Waterworth, Richard A. Redak, and Jocelyn G. Millar. 2012. Probable site of sex pheromone emission in female vine and obscure mealybugs (Hemiptera: Pseudococcidae). *J. Insect Behav.* 25: 287-296.

Rebecca A. Waterworth, Ian M. Wright, and Jocelyn G. Millar. 2011. Reproductive biology of three cosmopolitan mealybug (Hemiptera: Pseudococcidae) species, *Pseudococcus longispinus*, *Pseudococcus viburni*, and *Planococcus ficus*. *Ann. Entomol. Soc. Am.* 104: 249-260.

Rebecca A. Waterworth, Richard A. Redak, and Jocelyn G. Millar. 2011. Pheromone-baited traps for assessment of seasonal activity and population densities of mealybug species (Hemiptera: Pseudococcidae) in nurseries producing ornamental plants. *J. Econ. Entomol.* 104: 555-565.

Paula M. Shrewsbury, **Rebecca A. Waterworth**, and Ellery A. Vodraska. 2008. The effect of alternative plant production practices on predator – herbivore dynamics in ornamental nurseries. *Advances in Implementing Biological Control for Perennial Ornamental Crops Grown Outdoors Symposium. XXIII International Congress of Entomology, Durban, South Africa.*

Rebecca A. Waterworth and Robert J. Griesbach. 2001. The biochemical basis for flower color in *Calibrachoa*. *Hortscience* 36: 131–132.

Robert J. Griesbach and **Rebecca A. Waterworth**. 2000. Abstract: The biochemical basis for purple, blue, and red flower colors in *Calibrachoa* La Llave & Lexarza. *Hortscience* 35: 474.

Peer-reviewed (submitted)

Paul K. Abram, Kim A. Hoelmer, ...Paula M. Shrewsbury, Elijah Talamas, Luciana Tavella, James Walgenbach, **Rebecca Waterworth**, Donald C. Weber, Celeste Welty, Nik G. Wiman. Indigenous arthropod natural enemies of the invasive brown marmorated stink bug in North America and Europe. *J. Pest Sci.*

Peer-reviewed (in prep)

James A. Bethke, Bryan Vander Mey, and **Rebecca A. Waterworth**. Life History and Temperature Dependent Developmental Biology of *Duponchelia fovealis* Zeller (Lepidoptera: Crambidae) *J. Econ. Entomol.*

Rebecca A. Waterworth and Richard A. Redak. Potential use of Karrikinolide to manage African mustard (*Brassica tournefortii*). *Invasive Plant Sci. Manag.*

Rebecca A. Waterworth and Paula M. Shrewsbury. Habitat manipulations: Influence of ground cover and plant container position on natural enemy abundance and herbivore survival. *Environ. Entomol.*

Trade Publications

Jocelyn Millar, **Rebecca Waterworth**, Walt Bentley, Kent Daane, Vaughn Walton, and Monica Cooper. 2009. UC Researchers Demonstrate Potential use of Pheromones in Management of Mealybugs. *Practical Winery & Vineyard*. May/June 66-69.

Rebecca Waterworth and Michael Raupp. 2005. Stealth and Speed: A Tale of Two Spiders. *Groundwork*, A publication of the landscape contractors association MD – DC - VA. August: 18-19.

Extension publications (manuals, bulletins, fact sheets and reports)

Citation in IPM publications: Grossman, J. 2008. Mealybug pheromone traps in ESA 2007 Annual Meeting Special Pheromone Report. *The IPM Practitioner: Monitoring the Field of Pest Management*. 30(7-8): 13.

Citation in IPM publications: Grossman, J. 2007. Mealybug pheromones in ESA 2006 Annual Meeting Special Pheromone Report. *The IPM Practitioner: Monitoring the Field of Pest Management*. 29(7-8): 10.

Paula M. Shrewsbury, **Rebecca A. Waterworth**, Stanton Gill, and Colin Stewart. 2005. Biologically Based Pest Management Tactics for Production Nurseries – Moving Towards Sustainability. Integrated Pest Management – 2004 Annual Report. University of Maryland, College Park, MD.

Michael J. Raupp, R. Ahern, K. Bejleri, J. Byrd, M. DeoCampo, S. Frank, R. Goeriz, J. Hines, J. Jadin, E. Jewett, I. Kaplan, H. Lemke, H. Menninger, C. Moreno, A. Sensenig, **R. Waterworth**, E. Ternes, P. Shrewsbury, E. Dutky, E. Armstrong, and M. K. Malinoski. 2005. Periodical Cicada: A model for extension and outreach. Integrated Pest Management – 2004 Annual Report. University of Maryland, College Park, MD.

Moreno, Carlo, Rachel Goeriz, **Rebecca A. Waterworth**, and Megan DeoCampo. 2004. Periodical Cicada Fact Sheet for Kids. Maryland Cooperative Extension. University of Maryland.

Other publications

Co-author (with Paula Shrewsbury) of the “Beneficial of the Week” (n=8, 2016; n=2, 2017) for the *TPM/IPM Weekly Report for Arborists, Landscape Managers & Nursery Managers* ([online only](#)).

Presentations (*=invited)

Professional

Rebecca A. Waterworth (*presenter*) and Paula M. Shrewsbury. 2017. Select flowering plants: A tool to increase pollinator diversity in ornamental nurseries. Annual meeting of the Eastern Branch of the Entomological Society of America. Newport, RI.

Rebecca A. Waterworth (*presenter*), Samuel Ramsey, Kim A. Hoelmer, Christine Dieckhoff, and Paula M. Shrewsbury. 2015. Interactions of a native and exotic parasitoid of brown marmorated stink bug (*Halyomorpha halys*). Annual meeting of the Entomological Society of America. Minneapolis, MN.

*Rebecca A. Waterworth (*presenter*) and Jocelyn G. Millar. 2015. Reproductive Biology of Mealybugs (Pseudococcidae) and Practical Applications of Their Sex Pheromones in California Nurseries. Weekly Colloquium Series, Department of Entomology, University of Maryland, College Park, MD.

- *Rebecca A. Waterworth (*presenter*), Thomas Prentice, and Richard A. Redak. 2014. Herbivore community associated with an invasive mustard, *Brassica tournefortii*. Invited poster – Roles of Biotic Interactions in Invasion Biology (section symposium). Annual meeting of the Entomological Society of America. Portland, OR.
- James A. Bethke (*presenter*), Bryan Vander Mey, and Rebecca A. Waterworth. 2014. Life history and control of the European pepper moth, *Duponchelia fovealis*, a new pest in greenhouse production. Annual meeting of the Entomological Society of America. Portland, OR.
- Bryan Vander Mey (*presenter*), James A. Bethke, and Rebecca A. Waterworth. 2013. Completion of a degree day model and analysis for the European pepper moth, *Duponchelia fovealis* (Lepidoptera: Crambidae). Annual meeting of the Entomological Society of America. Austin, TX.
- *Jocelyn Millar, Yunfan Zou, Bruno Figadere (*presenter*), Jardel Moreira, J. Steven McElfresh, Rebecca Waterworth, Kent Daane, and Walt Bentley. June 2012 Invited departmental seminar, Pheromones of Mealybugs. Department of Pharmacology, Université Paris Sud, Paris, France
- *Joseph Morse (*presenter*), Richard Stouthamer, Jocelyn Millar, Greg Walker, Lindsay Robinson, Paul Rugman-Jones, Steve McElfresh, Rebecca Waterworth, Alan Urena, Pam Watkins, Jhamna Magsig-Castillo, Satya Chinta, and Jianlong Bi. 2012. Exotic armored scales entering California on Mexican avocados-politics trumps science. Department of Entomology ENT250 Seminar.
- Rebecca A. Waterworth (*presenter*), J. Steven McElfresh, Lindsay J. Robinson, Satya Chinta, Joseph G. Morse, and Jocelyn G. Millar. 2011. Basic biology and identification of the sex pheromone of the invasive scale species *Acutaspis albopicta* (Hemiptera: Diaspididae). Annual meeting of the Entomological Society of America. Reno, NV.
- Rebecca A. Waterworth (*presenter*), Jocelyn G. Millar, J. Steven McElfresh, and Ian M. Wright. 2009. Efficacy of pheromone-baited traps for detection and quantitative sampling of longtailed mealybug (Pseudococcidae: *Pseudococcus longispinus*) in production nurseries. Annual meeting of the Entomological Society of America. Indianapolis, IN.
- Rebecca A. Waterworth (*presenter*), Jocelyn G. Millar, J. Steven McElfresh, and Ian M. Wright. 2008. Reproductive parameters of citrus mealybug, *Planococcus citri* (Risso). Annual meeting of Entomological Society of America. Reno, NV.
- Paula M. Shrewsbury (*presenter*), Rebecca A. Waterworth and Ellery A. Vodraska. 2008. The effect of alternative plant production practices on predator – herbivore dynamics in ornamental nurseries. Advances in Implementing Biological Control for Perennial Ornamental Crops Grown Outdoors Symposium. XXIII International Congress of Entomology, Durban, South Africa.
- Rebecca A. Waterworth (*presenter*), Jocelyn G. Millar, James A. Bethke, and J. Steven McElfresh. 2008. Is there interference among mealybug sex pheromones used in pheromone-baited traps for monitoring mealybugs? Annual meeting of the Pacific Branch of the Entomological Society of America, Napa, CA. *First place winner, student paper competition.*
- Rebecca A. Waterworth (*presenter*), Jocelyn G. Millar, James A. Bethke, and J. Steven McElfresh. 2007. Biological Aspects of Mealybug Reproductive Behaviors. Annual meeting of the Pacific Branch of the Entomological Society of America. Portland, OR.

- Rebeccah A. Waterworth (*presenter*), Jocelyn G. Millar, James A. Bethke, and J. Steven McElfresh. 2006. Simultaneous monitoring of citrus, obscure, and longtailed mealybugs in ornamental production nurseries with pheromone baited traps. Annual meeting of the Entomological Society of America. Indianapolis, IN.
- Rebeccah A. Waterworth (*presenter*), Paula M. Shrewsbury, Stanton Gill, and Colin Stewart. 2004. Evaluating alternative management tactics in production nurseries. Annual meeting of the Entomological Society of America. Salt Lake City, UT.
- Paula M. Shrewsbury (*presenter*), Steven D. Frank, and Rebeccah A. Waterworth. 2004. Habitat manipulations of ornamental systems: what happens to the predators and pests? Annual meeting of the North Central Branch of the Entomological Society of America. Kansas City, MO.
- Rebeccah A. Waterworth (*presenter*), Paula M. Shrewsbury, Stanton Gill, and Colin Stewart. 2003. Habitat manipulation: An alternative approach to suppress pests in nurseries. Annual meeting of the Entomological Society of America. Cincinnati, OH.
- Rebeccah A. Waterworth (*presenter*), Paula M. Shrewsbury, Stanton Gill, and Colin Stewart. 2003. Impact of habitat manipulations on arthropod dynamics in an ornamental nursery system. Annual meeting of the Eastern Branch of the Entomological Society of America. Harrisburg, PA.

Contributed Posters

- Adventive populations of *Trissolcus japonicus*, an exotic natural enemy of *Halyomorpha halys*. A. Acebes-Doria, C. Bergh, M. Bon, M. Buffington, M. Cornelius, C. Dieckhoff, E. Fread, M. Greenstone, M. Herlihy, T.C. Leskey, J. Milnes, W.R. Morrison, III, P. Shrewsbury, E. Talamas, K. Tatman, R. Waterworth, D.C. Weber, N. Wiman, and K.A. Hoelmer (*presenter*). Annual meeting of the Eastern Branch of the Entomological Society of America, Philadelphia, PA.
- Rebeccah A. Waterworth (*presenter*), James A. Bethke, Stacie Oswalt, Greg Morris, and Richard A. Redak. 2013. Effectiveness of nursery shipping protocols designed to prevent the spread of *Homalodisca vitripennis* within California. Annual meeting of the Pacific Branch of the Entomological Society of America. Stateline, NV.
- Paula M. Shrewsbury (*presenter*) and Rebeccah A. Waterworth. 2010. Overcoming barriers to predation: Effect of alternative management practices on predator-herbivore dynamics in woody plant nurseries. Nearctic Regional Section of the International Organization for Biological Control, Niagra Falls, Ontario, Canada.
- Rebeccah A. Waterworth (*presenter*), Jocelyn G. Millar, James A. Bethke, and J. Steven McElfresh. 2007. Operational parameters of pheromone-baited traps to monitor citrus, obscure, and longtailed mealybugs in ornamental production nurseries. Annual meeting of the Entomological Society of America. San Diego, CA. *First place winner, student poster competition.*
- Michael J. Raupp (*presenter*), R. Ahern, K. Bejleri, J. Byrd, M. DeoCampo, S. Frank, R. Goeriz, J. Hines, J. Jadin, E. Jewett, I. Kaplan, H. Lemke, H. Menninger, C. Moreno, A. Sensenig, R. Waterworth, E. Ternes, and M. K. Malinoski. 2005. Periodical Cicada: A model for extension and outreach. Community IPM Program Meeting, Manchester, NH.
- Paula M. Shrewsbury (*presenter*), Rebeccah A. Waterworth, Stanton Gill, and Colin Stewart. 2004. Habitat manipulations to enhance suppression by natural enemies in production nurseries University of Maryland Bioscience Research and Technology Review Day.

Paula M. Shrewsbury (*presenter*), Rebecca A. Waterworth, Stanton Gill, and Colin Stewart. 2004. Habitat manipulations to enhance suppression by natural enemies in production nurseries. Northeast SARE 2004 Conference, Burlington, VT.

Extension

- *Rebecca A. Waterworth. 25 Feb. 2017. Conserving Beneficial Insects with Native Plants in Suburban Landscapes. Community Supported Agriculture Food Fair and Native Plant Fair, Bowie, MD.
- *Rebecca A. Waterworth (*presenter*) and Paula M. Shrewsbury. 25 Jan. 2017. Conserving Beneficial Insects: The Role of Flowering Plants in Ornamental Systems. At the Maryland Arborist Association 36th Annual Winter Recertification Seminar. Ellicott City, MD.
- *Rebecca A. Waterworth. 5 Jan. 2017. Scales – Identification, Biology, and Management. At the Advanced Landscape Plant IPM PHC Short Course, College Park, MD
- *Rebecca A. Waterworth. 8 Dec. 2016. Characteristics of Urban Spaces that Promote Pollinator Health and Conservation. At the Pollinator Working Group meeting. Providence, RI.
- *Rebecca A. Waterworth (*presenter*) and Paula M. Shrewsbury. 18 Aug. 2016. Sustainability: Moving Towards Practices to Conserve Beneficials in the Nursery. At the Biological Control in Commercial Greenhouses and Nurseries Conference, Wheaton, MD.
- *Rebecca A. Waterworth. 21 July 2016. Landscape Beneficial ID Walk. At the Green Industry Professional Field Day and Trade Show. Washington, DC.
- *Rebecca A. Waterworth, Paula M. Shrewsbury, and Ginny Rosenkranz (*all co-presenters*). 23 June 2016. Efforts towards the conservation of pollinators and natural enemies, and increasing biological control in nurseries. At the Annual Field Day of the Maryland Nursery, Landscape, and Greenhouse Association, Kennedyville, MD.
- *Rebecca A. Waterworth. 6 Jan. 2016. Scales – Identification, Biology, and Management. At the Advanced Landscape Plant IPM PHC Short Course, College Park, MD.
- *Paula M. Shrewsbury (*presenter*) and Rebecca A. Waterworth. 16 July 2015. Landscape Beneficial ID Walk. At the Green Industry Professional Field Day and Trade Show. Washington, DC.
- *Rebecca A. Waterworth (*presenter*) and Jocelyn G. Millar. 10 Nov. 2010. Recent advances in mealybug pheromones and their use in monitoring infestations. Entomology Meeting. Conference of the California Pest Control Advisors (CAPCA), Santa Paula, CA.
- *Rebecca A. Waterworth (*presenter*) and Jocelyn G. Millar. 14 Sept. 2010. Mealybug pheromones: research and practical applications. Entomology Seminar for California Pest Control Advisors (CAPCA), Temecula, CA.
- *Rebecca A. Waterworth. Pheromones and their Applications to Monitor Insects. 8 October 2009. Monthly meeting of the Prince George’s County Master Gardeners. Clinton, MD.
- *Rebecca A. Waterworth. 20 Sept. 2007. Monitoring Mealybugs: Basic Research from UCR. ABCs of (IPM) Integrated Pest Management. California Ornamentals Research Federation (CORF). Ventura, CA.
- *Rebecca A. Waterworth. 19 Sept. 2007. Monitoring Mealybugs: Basic Research from UCR. ABCs of (IPM) Integrated Pest Management. California Ornamentals Research Federation (CORF). Escondido, CA.

Honors, Recognitions, and Outstanding Achievements

Department of Entomology, UCR. Annual Student Seminar Day. First Place Paper. September 17, 2009

Recipient of Harry H. Shorey Endowed Scholarship, Department of Entomology, University of California, Riverside, CA. February 2009.

Member of Linnaean Team, National Champions at the Annual Meeting of the Entomological Society of America, Reno, NV. November 2008.

Recipient of James and Margaret Lesley Annual Prize, College of Natural and Agricultural Sciences, University of California, Riverside, CA. June 2008

Member of Linnaean Team, 1st place (tied game), Annual Meeting of the Pacific Branch of the Entomological Society of America, Napa, CA. March 31, 2008.

Student Competition for the President's Prize (poster presentation) – First place. Annual Meeting of the Entomological Society of America. San Diego, CA. December 2007

Member of Linnaean Team, 1st place, Annual Meeting of the Pacific Branch of the Entomological Society of America, Portland, OR. March 28, 2007.

Member of Linnaean Team, 1st place, Annual Meeting of the Pacific Branch of the Entomological Society of America, Maui, Hawaii. March 7, 2006.

Recipient of Chancellor's Distinguished Fellowship Award, University of California, Riverside, CA. September 2005 – May 2006.

Recipient of College of Life Science Fellowship for graduate course work, University of Maryland, College Park, MD. 2003–2004.

Recipient of James and Sarah Miller Scholarship for College of Agriculture and Natural Resources. University of Maryland, College Park, MD. Spring 2003.

Outstanding Senior for the College of Agriculture and Natural Resources, University of Maryland, College Park, MD. Spring 2003.

Recipient of Ernest Cory Scholarship in the Department of Entomology, University of Maryland, College Park, MD. Spring 2003.

Citizenship Award, Environmental Studies, College Park Scholars Program, University of Maryland, College Park, MD. October 2001.

Citation: College Park Scholars Program - Environmental Studies, University of Maryland, College Park, MD. October 2001.

Recipient of Goddard Memorial Scholarship, College of Agriculture and Natural Resources, University of Maryland, College Park, MD.

Service

Organizational memberships include:

Entomological Society of America

Alpha Zeta

Delta Sigma Gamma

Omicron Delta Kappa

Reviewer of manuscripts

Journal manuscripts (N=10), *Journal of Insect Behavior*, *Journal of Economic Entomology*, *Bulletin of Entomological Research*, *Naturwissenschaften*, *Neotropical Entomology*, *Journal of the Royal Society Interface*, *Florida Entomologist*

Service to Professional Societies or Associations

Member, UCR Linnaean Games Team, Entomological Society of America Annual Meeting, Indianapolis, IN, 2006.

Member, UCR Linnaean Games Team, Entomological Society of America Annual Meeting, San Diego, CA. 2007.

Volunteer in the Presentation Preview Room, Entomological Society of America Annual Meeting, Reno, NV, 2008.

Member, UCR Linnaean Games Team, Entomological Society of America Annual Meeting, Reno, NV, 2008.

Volunteer in the Presentation Preview Room, Entomological Society of America Annual Meeting, Indianapolis, IN, 2009.

Moderator, Entomological Society of America Annual Meeting, Minneapolis, MN, 2015.

University/Campus Service at University of California, Riverside

Entomology Graduate Student Association Officer: Treasurer, September 2007 – October 2009.

Graduate Student Representative, Search Committee for Assistant UC Cooperative Extension Specialist and Assistant Entomologist in the area of Insect Pests of Ornamentals, Spring 2007.

Entomology Graduate Student Association, Recruitment Committee Chair for Prospective Students, Spring 2007.

Participant in the Centennial Open House of the Agriculture Experiment Station. University of California, Riverside, CA. April 2007.

Participant in the Open House of the Agriculture Experiment Station. University of California, Riverside, CA. April 2006.

University/Campus Service at University of Maryland, College Park

Student Ambassador. College of Agriculture and Natural Resources. September 2001 – May 2003.

Alpha Zeta officer: President, September 2001 – May 2002 and Secretary, September 2000 – May 2001.