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Department of Entomology
Cornell University
Ithaca, NY

CAMPUS ADDRESSES: 168 Insectary Building/4136 Comstock Hall

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EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1987	Post-doctoral	University of California, Riverside, Riverside, CA
1986	Ph.D. Entomology	University of California, Riverside, Riverside, CA
1983	M.S. Entomology	University of California, Riverside, Riverside, CA
1977	B.S. Zoology	San Diego State University, San Diego, CA

PROFESSIONAL EXPERIENCE:

1994-present	Associate Professor of Entomology, Cornell University
1987-1994	Assistant Professor of Entomology, Cornell University
3-12/1986	Post-doctoral Research Scientist, Department of Entomology, University of California, Riverside
1982-1986	Graduate Research Assistant, Department of Entomology, University of California, Riverside
1979-1981	Laboratory Helper, Department of Entomology, University of California, Riverside
Summer 1979	Field Scout, B.F. Chemical Company, Los Banos, California
Summer 1977	Field Assistant, Department of Public Health-Vector Control, San Diego County

PROFESSIONAL RESPONSIBILITIES:

20% research, 40% extension, and 40% teaching

Research and extension: Integrated arthropod pest management for crops grown in controlled environments

Teaching: Insect biology courses for majors and non-majors; Applied Entomology

AREAS OF EXPERTISE: Integrated pest management, biological control, biology and management of greenhouse crop pests, general entomology, agricultural acarology

PROFESSIONAL SOCIETIES:

Entomological Society of America

International Organization for Biological Control, Nearctic Regional Section

New York Flower Industries

HONORS AND AWARDS:

Phi Beta Kappa

Sigma Xi

Gamma Sigma Delta

Excellence in IPM Award, 2016, New York State IPM Program

SELECTED PEER-REVIEWED RESEARCH PUBLICATIONS:

- Jandricic, S.E., S.E. Wraight, D.R. Gillespie, & J.P. Sanderson. 2016. Biological control outcomes using the generalist aphid predator *Aphidoletes aphidimyza* under multi-prey conditions. *Insects* 7: 75 doi:10.3390/insects7040075
- Wraight, SP, TA Ugine, ME Ramos, JP Sanderson. 2016. Efficacy of spray applications of entomopathogenic fungi against western flower thrips infesting greenhouse impatiens under variable moisture conditions. *Biological Control* 97, 31-47.
- Jandricic, SE, M Filotas, JP Sanderson, & SP Wraight. 2014. Pathogenicity of conidia-based preparations of entomopathogenic fungi against the greenhouse pest aphids *Myzus persicae*, *Aphis gossypii*, and *Aulacorthum solani* (Hemiptera: Aphididae). *Journal of invertebrate pathology* 118, 34-46.
- Jandricic, SE, NS Mattson, SP Wraight, & JP Sanderson. 2014. Within-Plant Distribution of *Aulacorthum solani* (Hemiptera: Aphididae), on Various Greenhouse Plants with Implications for Control. *Journal of Economic Entomology* 107 (2), 697-707.
- Lee, D.-H., J.P. Nyrop & J.P. Sanderson. 2014. Non-consumptive effects of predatory beetle, *Delphastus catalinae* (Coleoptera: Coccinellidae), on habitat use patterns of adult whitefly, *Bemisia argentifolii* (Hemiptera: Aleyrodidae). *Applied Entomology and Zoology* 49: 599-606.
- Jandricic, SE, SP Wraight, DR Gillespie, & JP Sanderson. 2013. Oviposition behavior of the biological control agent *Aphidoletes aphidimyza* (Diptera: Cecidomyiidae) in environments with multiple pest aphid species (Hemiptera: Aphididae). *Biological Control* 65 (2), 235-245.
- Ugine, TA, SP Wraight, & JP Sanderson. 2013. Microbial biological control potential of three strains of *Beauveria bassiana* against greenhouse shore fly *Scatella tenuicosta*: Assessment of virulence, mass production capacity, and effects on shore fly reproduction. *Biological Control* 65 (3), 348-356.
- Braun, S.E., J.P. Sanderson, M.L. Daughtrey & S.P. Wraight. (2012). Attraction and oviposition responses of the fungus gnat *Bradysia impatiens* to microbes and microbe-inoculated seedlings in laboratory bioassays. *Entomologia Experimentalis et Applicata* 145: 89–101.
- Braun, S. E., J.P. Sanderson, & S.P. Wraight. (2012). Larval *Bradysia impatiens* (Diptera: Sciaridae) potential for vectoring *Pythium* root rot pathogens. *Phytopathology* 102:283-289.
- Holden, M.H., S.P. Ellner, D.-H. Lee, J.P. Nyrop & J.P. Sanderson (2012). Designing an effective trap cropping strategy: the effects of attraction, retention and plant spatial distribution. *Journal of Applied Ecology* 49(3): 715–722.
- Lee, D.-H., Nyrop, J. P., Sanderson, J. P. (2011). Avoidance of natural enemies by adult whiteflies, *Bemisia argentifolii*, and effects on host plant choice. *Biological Control*, 58, 302-309.
- Ugine, T. A., Sanderson, J. P., Wraight, S. P., Shipp, L., Wang, K., Nyrop, J. P. (2011). Binomial sampling of western flower thrips, *Frankliniella occidentalis* (Thysanoptera: Thripidae) infesting flowering greenhouse crops using incidence-mean models. *Environmental Entomology*, 40 (2), 381-390.
- Ugine, T. A., Sensenbach, E. J., Sanderson, J. P., Wraight, S. P. (2010). Biology and feeding requirements of larval hunter flies *Coenosia attenuata* (Diptera: Muscidae) reared on larvae of the fungus gnat *Bradysia impatiens* (Diptera: Sciaridae). *Journal of Economic Entomology*, 103 (4), 1149-1158.

- Jandricic, S. E., Wraight, S. P., Bennett, K. C., Sanderson, J. P. (2010). Developmental Times and Life Table Statistics of *Aulacorthum solani* (Hemiptera: Aphididae) at Six Constant Temperatures, With Recommendations on the Application of Temperature-Dependent Development Models. *Environmental Entomology*, 39 (5), 1631-1642.
- Lee, D.-H., Nyrop, J. P., Sanderson, J. P. (2010). Effect of host experience of the greenhouse whitefly, *Trialeurodes vaporariorum*, on trap cropping effectiveness. *Entomologia Experimentalis et Applicata*, 137, 193-203.
- Braun, S. E., Castrillo, L. A., Sanderson, J. P., Daughtrey, M. L., Wraight, S. P. (2010). Transstadial transmission of *Pythium* in *Bradysia impatiens* and lack of larval vectoring capacity. *Phytopathology*, 100, 1307-1313.
- Braun, S. E., Sanderson, J. P., Nelson, E. B., Daughtrey, M. L., Wraight, S. P. (2009). Fungus gnat feeding and mechanical wounding inhibit *Pythium aphanidermatum* infection of geranium seedlings. *Phytopathology*, 99, 1421-1428.
- Van Driesche, R. G., Lyon, S., Sanderson, J. P., Bennett, K. C., Stanek, E. J., Ruitao, Z. (2008). Greenhouse trials of *Aphidius colemani* (Hymenoptera: Braconidae) banker plants for control of aphids (Hemiptera: Aphididae) in greenhouse spring floral crops. *Florida Entomologist*, 91 (4), 583-591.
- Ugine, T. A., Sanderson, J. P., Wraight, S. P. (2007). Developmental times and life tables for shore flies, *Scatella tenuicosta* (Diptera: Ephydriidae), at three temperatures. *Environmental Entomology*, 36, 989-997.
- Ugine, T. A., Wraight, S. P., Sanderson, J. P. (2007). Effects of manipulating spray-application parameters on efficacy of the entomopathogenic fungus *Beauveria bassiana* against western flower thrips, *Frankliniella occidentalis*, infesting greenhouse impatiens crops. *Biocontrol Science and Technology*, 17, 193-219.
- Hoebcke, E. R., Sensenbach, E. J., Sanderson, J. P., Wraight, S. P. (2003). First report of *Coenosia attenuata* Stein (Diptera: Muscidae), an Old World 'hunter fly' in North America. *Proc. Entomol. Soc. Wash.*, 105 (3), 769-775.
- Hoddle, M. S., Van Driesche, R. G., Lyon, S. M., Sanderson, J. P. (2001). Compatibility of insect growth regulators with *Eretmocerus eremicus* (Hymenoptera: Aphelinidae) for whitefly (Homoptera: Aleyrodidae) control on poinsettia: I. Laboratory assays. *Biological Control*, 20 (2), 122-131.
- Van Driesche, R. G., Hoddle, M. S., Lyon, S. M., Sanderson, J. P. (2001). Compatibility of insect growth regulators with *Eretmocerus eremicus* (Hymenoptera: Aphelinidae) for whitefly (Homoptera: Aleyrodidae) control on poinsettia: II. Trials in commercial poinsettia crops. *Biological Control*, 20 (2), 132-146.
- Van Driesche, R. G., Hoddle, M. S., Roy, S., Lyon, S. M., Sanderson, J. P. (2001). Effect of parasitoid release pattern on whitefly (Homoptera: Aleyrodidae) control in commercial poinsettia crops. *Florida Entomologist*, 84 (1), 63-69.
- Hoddle, M. S., Van Driesche, R. G., Sanderson, J. P. (1998). Biology and use of the whitefly parasitoid *Encarsia formosa*. *Annual Review of Entomology*, 43, 645-669.
- Zhang, Z. Q., Sanderson, J. P. (1997). Patterns, mechanisms and spatial scale of aggregation in generalist and specialist predatory mites (Acari: Phytoseiidae). *Experimental & Applied Acarology*, 21, 393-404.
- Sanderson, J. P., Zhang, Z. Q. (1995). Dispersion, sampling, and potential for integrated control of twospotted spider mite (Acari: Tetranychidae) on greenhouse roses. *Journal of Economic Entomology*, 88 (2), 343-351.

Zhang, Z.-Q., Sanderson, J. P., Nyrop, J. P. (1992). Foraging time and spatial patterns of predation in experimental populations: A comparative study of three mite predator - prey systems (Acari: Phytoseiidae, Tetranychidae). *Oecologia*, 90 (2), 185-196.

COURSES TAUGHT:

ENTOM 2010-2011 (Alien Empire – The Bizarre Biology of Bugs); 2 or 3 credit introductory entomology course for non-majors.

ENTOM 2120 (Insect Biology): 4-credit introductory entomology course for majors.

ENTOM 3410 (Applied Entomology): 3-credit course covering pestiferous and beneficial insects and an overview of various approaches to their management in a wide variety of settings.