

Ivan Milosavljević

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Positions Held

2020-present Supervisory Project Scientist, Dept. of Entomology, University of California Riverside
2016-2020 Postdoctoral Researcher, Dept. of Entomology, University of California Riverside
2015-2016 Postdoctoral Researcher, Dept. of Entomology, Washington State University
2012-2015 Research Assistant, Dept. of Entomology, Washington State University

Education

Ph.D. Washington State University, Pullman, WA, Entomology, Aug. 2015
M.Sc. University of Belgrade, Serbia, College of Agriculture, Phytomedicine, Jan. 2013
B.Sc. University of Belgrade, Serbia, College of Agriculture, Phytomedicine, Mar. 2011

Grants and Development Funds

2020-2023 Taking Chlorpyrifos out of Citrus: Maximizing IPM of Argentine Ant and Sap Sucking Pests with Biodegradable Hydrogels, Infra-Red Sensors, and Cover Crops. CDPR Pest Management (PI; Co-PIs: M.S. Hoddle, F. Byrne, E Keogh, S Singh) (\$499,839)
2020-2021 Neudorff hydrogel treatment study. Neudorff, USA (PI; Co-PIs: M.S. Hoddle) (\$500)
2020-2021 Marrone Bio Innovations hydrogel treatment study. Marrone Bio Innovations, USA (PI; Co-PIs: M.S. Hoddle and F. Byrne) (\$2,700)
2016-2019 Improving Integrated Pest Management of Wireworms in Cereal Crops. USDA NIFA Crop Protection and Pest Management (co-PI, PI: D.W. Crowder) (\$324,983)
2014-2016 Wireworm control in wheat-based cropping systems. Washington Grain Commission (co-PI, PI: D.W. Crowder) (\$187,234)
2014 REACCH summer mentorship. Regional Approaches to Climate Change (REACCH) Mentorship Program (co-PI, PI: D.W. Crowder) (\$5,200)
2013 REACCH summer mentorship. Regional Approaches to Climate Change (REACCH) Mentorship Program (co-PI, PI: D.W. Crowder) (\$5,200)
2013 Chemtura seed treatment study. Chemtura AgroSolutions (co-PI, PI: A Esser) (\$6,000)
2013 Valent seed treatment study. Valent, USA (co-PI, PI: A Esser) (\$18,000)
2013 Syngenta seed treatment study. Syngenta Seed (co-PI, PI: A Esser) (\$6,000)

Awards and Honors

2017 California Department of Pesticide Regulation IPM Achievement Award (Team member)
2015 WSU CAHNRS Team Interdisciplinary Award (Team member)
2015 WSU President's Leadership and Engagement Award of Distinction (Team member)
2014 WSU Entomology Louis W. Getzin Memorial Scholarship (\$600)
2014 WSU Entomology Research Award (\$500)
2014 WSU President's Award for Leadership (Team member)
2012-2013 WSU Graduate & Professional Student Association (GPSA) Travel Grants (\$1,250)
2012 WSU Entomology H. S. Telford Scholarship (\$550)
2012-2015 WSU Entomology Research Assistantship (\$19,000/yr)
2011 Scholarship from the Ministry of Education, Republic of Serbia (\$2,150)
2001 University of Belgrade Academic Scholarship (\$6,000)

Book Chapters

Milosavljević I, Hoddle MS (2019) Advances in classical biological control in IPM. In M Kogan and EA Heinrichs (Eds.) Integrated management of insect pests: Current and Future Developments in IPM. Burleigh Dodds Science Publishing, Cambridge, UK. pp. 415-450. doi:10.19103/AS.2019.0047.13

Publications

Peer-reviewed:

22. **Milosavljević I**, Morgan DJW, Massie RE, Hoddle MS (2021) Density dependent mortality, climate, and Argentine ants affect population dynamics of an invasive citrus pest, *Diaphorina citri*, and its specialist parasitoid, *Tamarixia radiata*, in Southern California, USA. *Biological Control* 159, 104627.
21. Furlan L, **Milosavljević I**, Chiarini F, Benvegnù I (2021) Effects of conventional tillage versus no-tillage systems on the population dynamics of elaterid pests and the associated damage at establishment of maize crops. *Crop Protection* 148, 105751
20. Furlan L, Contiero B, Chiarini F, Bottazo M, **Milosavljević I** (2021) Risk factors and strategies for integrated management of bird pests affecting maize establishment. *Crop Protection* 148, 105744
19. **Milosavljević I**, Hoddle MS (2021) Laboratory screening of selected synthetic and organic insecticides for efficacy against Argentine ants when incorporated into alginate hydrogel beads, 2021. *Arthropod Management Tests* 46, doi:10.1093/amt/tsab072.
18. Hoddle MS, Hoddle CD, **Milosavljević I** (2021) Quantification of the lifetime flight capabilities of the South American palm weevil, *Rhynchophorus palmarum* (L.) (Coleoptera: Curculionidae). *Insects* 12, 126. doi:10.3390/insects12020126
17. **Milosavljević I**, Hoddle CD, Mafra-Neto A, Gómez-Marco F, Hoddle MS (2020) Use of digital video cameras to determine the efficacy of two trap types for capturing *Rhynchophorus palmarum* (Coleoptera: Curculionidae). *Journal of Economic Entomology* 113, 3028-3031.
16. **Milosavljević I**, Hoddle CD, Mafra-Neto A, Gómez-Marco F, Hoddle MS (2020) Effects of food bait and trap type on captures of *Rhynchophorus palmarum* (Coleoptera: Curculionidae) and trap bycatch in Southern California. *Journal of Economic Entomology* 113, 2407-2417.
15. Hoddle MS, Hoddle CD, **Milosavljević I** (2020) How far can *Rhynchophorus palmarum* (Coleoptera: Curculionidae) fly? *Journal of Economic Entomology* 113, 1786-1795.
14. Veres A, Wyckhuys KAG, Kiss J, Tóth F, Burgio G, Pons X, Avilla C, Vidal S, Razinger J, Bažok R, Matyjaszczyk E, **Milosavljević I**, Le XV, Zhou W, Zhu ZR, Tarno H, Hadi B, Lundgren J, Bonmatin JM, van Lexmond MB, Aebi A, Rauf A, Furlan L (2020) An update of the Worldwide Integrated Assessment (WIA) on systemic pesticides. Part 4: Alternatives in major cropping systems. *Environmental Science and Pollution Research* 27, 29867–29899.
13. **Milosavljević I**, Esser AD, Rashed A, Crowder DW (2020) The composition of soil-dwelling pathogen communities mediates effects on wireworm herbivores and wheat productivity. *Biological Control* 149, 104317.
12. **Milosavljević I**, McCalla KA, Morgan DJW, Hoddle MS (2020) The effects of constant and fluctuating temperatures on development of *Diaphorina citri* (Hemiptera: Liviidae), the Asian citrus psyllid. *Journal of Economic Entomology* 113, 633-645.
11. **Milosavljević I**, McCalla KA, Bistline-East AJ, Hoddle MS (2020) Threshold temperatures and thermal requirements of *Psyllaphycus diaphorinae* (Hymenoptera: Encyrtidae), a hyperparasitoid of *Diaphorencyrtus aligarhensis* (Hymenoptera: Encyrtidae) and *Tamarixia radiata* (Hymenoptera: Eulophidae). *Florida Entomologist* 103, 23-31.
10. McCalla KA, Keçeci M, **Milosavljević I**, Ratkowsky DA, Hoddle MS (2019) The influence of temperature variation on life history parameters and thermal performance curves of *Tamarixia radiata*, a parasitoid of the Asian citrus psyllid. *Journal of Economic Entomology* 112, 1560-1574.

9. **Milosavljević I**, McCalla KA, Ratkowsky DA, Hoddle MS (2019) Effects of constant and fluctuating temperatures on development rates and longevity of *Diaphorencyrtus aligarhensis* (Hymenoptera: Encyrtidae). *Journal of Economic Entomology* 112, 1062-1072.
8. **Milosavljević I**, Esser AD, Murphy KM, Crowder DW (2019) Effects of imidacloprid seed treatments on crop yields and economic returns of cereal crops. *Crop Protection* 119, 166-171.
7. **Milosavljević I**, El-Shafie HAF, Faleiro JR, Hoddle CD, Lewis M, Hoddle MS (2019) Palmageddon: the wasting of ornamental palms by invasive palm weevils, *Rhynchophorus* spp. *Journal of Pest Science* 92, 143-156.
6. **Milosavljević I**, Amrich R, Strode V, Hoddle MS (2018) Modeling the phenology of Asian citrus psyllid (Hemiptera: Liviidae) in urban southern California: effects of environment, habitat, and natural enemies. *Environmental Entomology* 47, 233-243.
5. **Milosavljević I**, Schall KA, Hoddle CD, Morgan DJW, Hoddle MS (2017) Biocontrol program targets Asian citrus psyllid in California's urban areas. *California Agriculture* 71, 169-177.
4. **Milosavljević I**, Esser AD, Crowder DW (2017) Seasonal population dynamics of wireworms in wheat crops in the Pacific Northwestern United States. *Journal of Pest Science* 90, 77-86.
3. **Milosavljević I**, Esser AD, Bosque-Perez NA, Crowder DW (2016) The identity of belowground herbivores, not herbivore diversity, mediates impacts on plant productivity. *Scientific Reports* 6, 39629.
2. **Milosavljević I**, Esser, AD, Crowder DW (2016) Effects of environmental and agronomic factors on soil-dwelling pest communities in cereal crops. *Agriculture, Ecosystems & Environment* 225, 192-198.
1. Esser AD, **Milosavljević I**, Crowder DW (2015) Effects of neonicotinoids and crop rotation for managing wireworms in wheat crops. *Journal of Economic Entomology* 108, 1786-1794.

Manuscripts submitted or in late stages of preparation (manuscripts available on request):

2. Hoddle MS, Hoddle CD, **Milosavljević I**, Grisales VD, Estrada-Venegas EG, Equihua-Martínez A (2021) Oviposition Biology and Behavior of *Heilipus laurii* (Coleoptera: Curculionidae). *Annals of the Entomological Society of America*. (in preparation).
1. Hoddle MS, Hoddle CD, **Milosavljević I**, Grisales VD, Estrada-Venegas EG, Equihua-Martínez A (2021) Assessment of gender, mating status, and age on single and repeat flight capabilities of *Heilipus lauri* (Coleoptera: Curculionidae). *Journal of Insect Science* (in review)

Extension:

7. **Milosavljević I**, Hoddle CD, Hoddle MS (2020) Trapping protocols for South American palm weevil in California. *In* CAPCA Adviser, October, 48-53.
6. **Milosavljević I**, Morgan DJW, Hoddle MS (2017) Building a coalition: Biocontrol of Asian citrus psyllid by *Tamarixia radiata* and *Diaphorencyrtus aligarhensis* in California. *In* Citrograph 8, 58-63.
5. **Milosavljević I**, Hoddle MS (2017) Teaming up against Asian citrus psyllids: The natural enemies *Diaphorencyrtus aligarhensis* and *Tamarixia radiata* may have a future together in California. *In* Citrus Industry Magazine 32-35.
4. Crowder DW, **Milosavljević I**, Esser AD (2016) Know your wireworms! Different species do different damage. *In* Wheat Life 53-55.
3. **Milosavljević I**, Esser AD, Crowder DW (2015) Identifying wireworms in cereal crops. Washington State University Extension, FS175E.
2. Crowder DW, Esser, AD, **Milosavljević I** (2014) Wireworm biology and ecology in Washington cereal crops. *In* Regional Approaches to Climate Change for Pacific Northwest Agriculture 38-39.
1. Esser AD, Crowder DW, **Milosavljević I** (2014) Wireworms take bite out of winter wheat crop. *In* Wheat Life 68-69.

PresentationsAcademic:

- 2020 Entomological Society of America (Symposium: “Synergy in Biological Control of invasive insects: Utilizing the Ecology and Behavior of Natural Enemies”), Orlando, FL *virtual talk
- 2019 Pacific Branch of the Entomological Society of America (Symposia: “Innovative Technologies and Methods in Insect Pest Management” and “Big or Small She'll Parasitize Them All: Tales and Applications of Host-Parasitoid Relationships”), San Diego, CA (2 Talks)
*invited talks
- 2018 University of California Davis, Department of Entomology and Nematology, Davis, CA
Entomological Society of America (Symposium: From Genes to Communities: Quantifying Diverse Responses of Pollinators to Multiple Anthropogenic Stressors), Vancouver, Canada
Entomological Society of America (Organized meeting: SOGA weevils workers), Vancouver, Canada *invited talk
Pacific Branch of the Entomological Society of America (Symposium: Promising accomplishments in biological control), Reno, NV *invited talk
- 2017 Entomological Society of America (ESA), Denver, CO
W4185 Annual Conference, Borrego Springs, CA *invited talk
Entomological Society of Southern California, Arcadia, CA *invited talk
- 2016 International Congress of Entomology (Symposium: Wireworm and Click Beetle Management: IPM Toolbox for the 21st Century), Orlando, FL *invited talk
Pacific Branch of the Entomological Society of America (Symposium: Promising accomplishments in biological control), Honolulu, HI. *invited talk
- 2015 Washington State University, Department of Entomology, Pullman, WA *departmental talk
Pacific Branch meeting of the Entomological Society of America, Coeur d'Alene, ID
- 2014 Entomological Society of America (Symposium: Wireworms: The resurgence of a key pest of North American cropland), Portland, OR (2 Talks) *invited talks
European Congress of Entomology (Symposium: Managing wireworms in a changing environment), York, UK
Annual Wiley Research Exposition. Pullman, WA (2 Talks)
73rd Annual Pacific Northwest Insect Management Conference. Portland, OR. (2 Talks)
- 2013 Washington State University, Department of Entomology, Pullman, WA
Pacific Branch of the Entomological Society of America (Symposium: Wireworms in the west: what is known, what has been done and what needs to be done), Lake Tahoe, NV (2 Talks) *invited talks
- 2012 Entomological Society of America (ESA), Austin, TX
Entomological Society of America (Symposium: 120 Years After Comstock the Wireworm Battle Continues), Knoxville, TN *invited talk

Extension:

- 2019 Citrus Research Board and Citrus Post-Harvest Meeting, Bakersfield, CA
CDFA South American palm weevil Workshops, Indio and San Diego area, CA (5 Talks)
Citrus Post-Harvest Conference, CCQC Quarantine Research Meeting, Santa Barbara, CA
Pesticide Applicators Professional Association, Anaheim, CA (2 Talks)
California Association of Pest Control Advisers, Ontario, CA (2 Talks)
- 2017 University of California Riverside Citrus Day, Riverside, CA (Poster)
Pesticide Applicators Professional Association, Victorville, CA (2 Talks)
California Association of Pest Control Advisers, Ontario, CA (2 Talks)

- 2016 California Association of Pest Control Advisers, Carson, CA
Washington Association of Wheat Growers Wheat College. Davenport, WA (3 Talks).
- 2014 Washington State University Pesticide Certification Course (3 talks)
Washington State University Crop Diagnostic Clinic (3 Talks)
Far-West Agribusiness Association. Kennewick, WA
Asotin County Wheat Growers meeting. Asotin, WA
Davenport Union grower meeting. Davenport, WA
Annual Eastern Klickitat Conservation District Meeting, Bickleton WA
- 2013 National Association of County Agricultural Agents Annual Meeting, Pittsburgh, PA
Washington State University Wilke Research and Extension Farm Field Day, Davenport, WA
Far West Agribusiness Association Conference, Twin Falls, ID
The Northern Lincoln County Field Tour, Wilbur/Creston, WA (2 Talks)

Teaching

Washington State University:

- 2013 - 2015 **Athletic Center Tutor.** One-on-one and group tutoring of student athletes in entomology coursework. Instructor.
- 2014 **Entom 539 - Insect Identification** Graduate course focused on insect taxonomy and speciation. Guest Lecturer. Prepared and lectured two course lectures.
- 2013 **Entom 343 - General Entomology.** Undergraduate course focused on insect morphology and ecology. Guest Lecturer. Prepared and lectured two course lectures.
- 2013 **IPM 201 - Introduction to Pest Management in a Quality Environment.** Undergraduate course focused on ecological and integrated pest management. Guest Lecturer. Prepared and lectured three course lectures.
- 2013 **Entom 101 - Insects and People: A perspective.** Undergraduate course focused on impacts of insects on human life. Guest Lecturer. Prepared and lectured three course lectures.
- 2013 **Entom 150 - Insects, Science and World Cultures.** Undergraduate course focused on impacts of insects on human life. Guest Lecturer. Prepared and lectured three course lectures.
- 2013 **Upward Bound.** Summer Entomology courses for high school students. Guest Lecturer.

Mentorships

- 2017-2019 Kelly Giordano “Trapping protocols for invasive pests of palms”, UCR
- 2016 Carly Pierce “Parasitoid-host interactions in citrus”, UCR
Naghm Melhem “Parasitoid-host interactions in citrus”, UCR
- 2015 Laura Rafferty “Wireworm-virus interactions in wheat” WSU
- 2014 Jacob Cohen “Wireworm-virus interactions in wheat” WSU/University of Idaho
- 2013 Jordan Bailey “Climate change and wireworm-aphid interactions” WSU/University of Idaho
Kayla Fillion “Climate change and wireworm-aphid interactions” WSU

Professional Affiliations

- 2018-present International Organization for Biological Control, Nearctic Regional Section (IOBC)
- 2012-present Entomological Society of America (ESA)
- 2012-2015 American Society of Agronomy (ASA)
Crop Science Society of America (CSSA)
Soil Science Society of America (SSSA)
- 2011-2012 Entomological Society of Serbia (EDS)

Professional Training

2018-2019	Affirmative Action & Compliance Liaison License (University of California)
2014	Good Agricultural Practices (GAP) Certification Program, Washington state
2014	Process Oriented Guided Inquiry Learning (POGIL) Workshop
2013	College Reading and Learning Association's International Tutor Certification Program
2010	Pesticide Applicator Certification, Belgrade, Serbia

Service and Outreach

2020-present	Subject Editor , Insects
2020-present	Member , Consortium for Targets and Procedures for arable crops in Europe
2019	Moderator , Symposium: Innovative Technologies and Methods in Insect Pest Management. ESA Pacific Branch Conference, San Diego, CA.
	Moderator , South American palm weevil conference. Indio, CA
	Moderator , South American palm weevil conference. Bonita, CA
2018	Volunteer , Annual Riverside Insect Fair. Riverside, CA
2017-present	Editor , Asian Citrus Psyllid Resources/UCR Applied Biological Control Website
2014-2016	Co-Editor , Insect Resources/WSU Small Grains Website
2014-2015	Volunteer Assistant Coach , WSU Women's Basketball Team
2013-2015	Member , WSU Small Grains Extension Team
2013	Judge , Student Debates Competition. Annual meeting of the ESA, Austin, TX
2012-2015	Volunteer , CAHNRS Annual Fall Festival, Pullman, WA
	Volunteer , Annual Insect Expo, Insect Cinema Cult Classic, and Insect Feed. Pullman, WA
2012-2015	Member , WSU Entomology Graduate Student Association (EGSA)
2010-2012	Assistant Coach , Division 2 Professional Basketball Team, Belgrade, Serbia
2009-2010	Manager , City Parks and Recreation, Belgrade, Serbia
2009	Manager , Summer Universiade, Belgrade Serbia
2000	Volunteer Coach , Basketball Coach for the Community youth. Belgrade, Serbia

Reviewer for (total reviews ~90): Biological Control (2), Annals of Applied Biology (1), Crop Science (2), Environmental Science and Pollution Research (2), Agricultural and Forest Entomology (2), Crop Protection (2), Entomologia Generalis (1), Agriculture Ecosystems & Environment (1), Journal of Economic Entomology (3), Environmental Entomology (5), Journal of Animal Science and Research (2), Ecological modeling (3), Annals of the Entomological Society of America (1), Journal of Pest Science (2), Journal of Applied Entomology (2), BioControl (1), International Journal of Pest Management (1), Journal of the Entomological Research Society (2), Insects (30), Plants (1), Processes (2), Foods (2), Biology (2), International Journal of Environmental Research and Public Health (2), Journal of Insect Behavior (2), Pest Management Science (3), Neotropical Entomology (2), Agriculture (3), Agronomy (1), Applied Sciences (1), Florida Entomologist (2), Bulletin of Entomological Research (1), Journal of Thermal Biology (1).

Popular press

“Tiny helpful wasps are coming to save your citrus” The Mercury News (18 January 2021).

<https://www.mercurynews.com/2021/01/18/tiny-helpful-wasps-are-coming-to-save-your-citrus/>

“Fear No Weevil: Entomologists Say Cone Traps Better Protect Palm Trees” Entomology Today; Entomological Society of America (19 October 2020). <https://entomologytoday.org/2020/10/23/fear-no-weevil-entomologists-say-cone-traps-better-protect-palm-trees/>

“Long-Distance Palm Weevil Flyers Threaten California Date Palms” Entomology Today; Entomological Society of America (16 July 2020). <https://entomologytoday.org/2020/07/16/long-distance-palm-weevil-flyers-rhynchophorus-palmarum-threaten-california-date-palms/>