

Ivan Milosavljević

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Positions Held

2020-present Assistant Project Scientist III, Department of Entomology, University of California Riverside
2016-2020 Postdoctoral Researcher, Department of Entomology, University of California Riverside
2015-2016 Postdoctoral Associate, Department of Entomology, Washington State University
2012-2015 Research Assistant, Department of Entomology, Washington State University

Education

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

Grant Support 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 “Marrone Bio Innovations M306 treatment study” (PI; Co-PIs: M.S. Hoddle and F. Byrne) (\$2,625).
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 internship”. Regional Approaches to Climate Change (REACCH) Internship Program (co-PI, PI: D.W. Crowder) (\$5,200)
2013 “REACCH summer internship”. Regional Approaches to Climate Change (REACCH) Internship 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

Refereed Publications

18. **Milosavljević I**, Morgan DJW, Hoddle MS (2020) The effects of climate, season, host plants, and Argentine ants on phenology and biological control of *Diaphorina citri* (Hemiptera: Liviidae) in Southern California, USA. (in review). Biological Control *invited contribution for the Special Issue on Recent advances of biological control of citrus pests and diseases.
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. (in press). doi:10.1093/jee/toaa223
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, Matyjaszyk 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. <https://doi.org/10.1016/j.biocontrol.2020.104317>
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 Sci 92, 143-156 *invited contribution for the Special Issue on Invasive Pests of Forests and Urban Trees.
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.

Extension and Trade Articles

7. **Milosavljević I**, Hoddle CD, Hoddle MS (2020) Trapping protocols for South American palm weevil. *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 aligarbensis* in California. *In* Citrograph 8, 58-63.
5. **Milosavljević I**, Hoddle MS (2017) Teaming up against Asian citrus psyllids: The natural enemies *Diaphorencyrtus aligarbensis* 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.

Invited Talks

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| 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)
Citrus Post-Harvest Conference, CCQC Quarantine Research Meeting, Santa Barbara, CA |
| 2018 | 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
Pacific Branch of the Entomological Society of America (Symposium: Promising accomplishments in biological control), Reno, NV
Pesticide Applicators Professional Association, Anaheim, CA (2 Talks)
California Association of Pest Control Advisers, Ontario, CA (2 Talks) |
| 2017 | Pesticide Applicators Professional Association, Victorville, CA (2 Talks)
W4185 Annual Conference, Borrego Springs, CA
Entomological Society of Southern California, Arcadia, CA
California Association of Pest Control Advisers, Ontario, CA (2 Talks)
California Association of Pest Control Advisers, Carson, CA |

- 2016 International Congress of Entomology (Symposium: Wireworm and Click Beetle Management: IPM Toolbox for the 21st Century), Orlando, FL
Pacific Branch of the Entomological Society of America (Symposium: Promising accomplishments in biological control), Honolulu, HI.
Washington Association of Wheat Growers Wheat College. Davenport, WA (3 Talks).
- 2015 Washington State University, Department of Entomology, Pullman, WA
- 2014 Entomological Society of America (Symposium: Wireworms: The resurgence of a key pest of North American cropland), Portland, OR (2 Talks)
European Congress of Entomology (Symposium: Managing wireworms in a changing environment), York, UK
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 Washington State University Wilke Research and Extension Farm Field Day, Davenport, WA
Washington State University, Department of Entomology (2 Talks)
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)
Far West Agribusiness Association Conference, Twin Falls, ID
The Northern Lincoln County Field Tour, Wilbur/Creston, WA (2 Talks)
- 2012 Entomological Society of America (Symposium: 120 Years After Comstock the Wireworm Battle Continues), Knoxville, TN

Contributed Presentations

- 2019 CDFA South American palm weevil Workshops, Indio and San Diego area, CA (5 Talks)
- 2017 Entomological Society of America (ESA), Denver, CO
University of California Riverside Citrus Day, Riverside, CA (Poster)
- 2015 Pacific Branch meeting of the Entomological Society of America, Coeur d'Alene, ID
- 2014 Annual Wiley Research Exposition. Pullman, WA (2 Talks)
73rd Annual Pacific Northwest Insect Management Conference. Portland, OR. (2 Talks)
- 2013 Entomological Society of America (ESA), Austin, TX
National Association of County Agricultural Agents Association Annual Meeting, Pittsburgh, PA
- 2011 University of Belgrade, College of Agriculture, Serbia (3 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.

University of Belgrade

- 2011 **OENT - General Entomology.** Undergraduate course focused on insect morphology and physiology. Teaching Assistant.
- 2011 **VIRO - Plant Virology.** Undergraduate course focused on plant pathogenic viruses. Guest Lecturer. Prepared and lectured two course lectures.

Mentorships

Mentored nine undergraduate students, two interns, and five lab technicians through independent and cooperative research projects, writing reports, and academic presentations, facilitating development of critical academic and professional skills. Most students and interns have attended post-secondary schooling or successfully acquired IPM research positions in government organizations or public universities

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

Professional Affiliations

- 2019-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)

Service and Outreach

- 2020-present **Member of Consortium,** H2020-SFS 04-2019-2020 project-IPM Targets and Procedures for arable crops in Europe (PI: L. Furlan)
- 2020-present **Member,** Reviewer Board for Insects Journal
- 2019 **Moderator,** Symposium: Innovative Technologies and Methods in Insect Pest Management. Entomological Society of America 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 Entomological Society of America (ESA), Austin, TX
2012-2015 **Volunteer**, Annual Insect Feed. Pullman, WA
Volunteer, CAHNRS Annual Fall Festival, Pullman, WA
Volunteer, Annual Insect Expo and Insect Cinema Cult Classic. Pullman, WA
2012-2015 **Member**, Washington State University 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 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 (4), 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 (10), 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 (4)