

## Curriculum vitae: Personal details

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Name and Surname: **Gabriele Rondoni**  
Country/Nationality: Italy/Italian  
Current position and place of Work 1 (from 10/2022): “Researcher, tenure-track” (equip. Assistant Professor) at the Department of Agricultural Food and Environmental Sciences (DSA3), Plant Protection Research Unit – Entomology, University of Perugia (UNIPG). Borgo XX giugno, 74, 06121, Perugia, Italy  
Current position and place of Work 2 (11/2022 to 8/2024): Visiting Professor at the Institut de recherche en biologie végétale (IRBV), Université de Montréal (UDEM). 4101 Sherbrooke Est, QC H1X 2B2, Montréal, Quebec, Canada (Jaques Brodeur Lab)  
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Loop Profile: <https://loop.frontiersin.org/people/658146/overview>  
Research Gate: <https://www.researchgate.net/profile/Gabriele-Rondoni>

## Project funding and academic achievements

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04/02/2021 Project proposal n°101026399 within H2020-MSCA-IF-2020, Global Fellowship entitled: Depicting the impact of an invasive alien crop pest on local ecological networks (<https://cordis.europa.eu/project/id/101026399> ). Duration: 3 years (01/09/2022 – 31/08/2025; €255.768,00).  
26/07/2018 Qualified as Associate Professor (ASN, Italian Ministry of Education, University and Scientific Research)  
07/02/2012 PhD in Basic and applied entomology, DSA3-UNIPG  
22/04/2008 MSc *summa cum laude* in Agricultural and Environmental Sciences, UNIPG  
21/04/2005 BSc *summa cum laude* in Agricultural and Environmental Sciences, UNIPG

## Professional activities at DSA3-UNIPG

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31/10/2022 – 30/10/2025 **Researcher, tenure-track position** (RTDb, art. 24 c.3-a L. 240/10) in Basic and Applied Entomology.  
01/09/2022 - 31/08/2025 **Marie Curie Global fellowship Researcher** on: Depicting the impact of an invasive alien crop pest on local ecological networks. Research activities will be conducted at the University of Perugia (Italy), Université de Montréal (Canada), Centre for Ecology & Hydrology, UK (UK), Newcastle University (UK), TeamDev S.r.l. (Italy)  
01/03/2019 - 18/03/2022 **Post-Doctoral fellowships** (4 contracts) on: 1) SM@RT METEO: development of an innovative Decision Support System for monitoring phytopathological pests and diseases; 2) Effects of biostimulants on induced resistance in olive using molecular tools; 3) Post-release evaluation of classical biocontrol program in Italy against *Halyomorpha halys* using the egg parasitoid *Trissolcus japonicus*; 4) Biological control of *Halyomorpha halys*: use of informatic tools for pre- and post-release monitoring, evaluation of biocontrol efficacy and potential non-target effects.

- 09/03/2015 - 28/02/2019 **Researcher, fixed-term position with teaching responsibilities** (RTDa, art. 24 c.3-a L. 240/10) in Basic and Applied Entomology. Main activities: Behaviour, chemical ecology and molecular ecology of *Harmonia axyridis* (Coccinellidae) and *Halyomorpha halys* (Pentatomidae), invasive Asiatic species recently recorded in Italian agroecosystems, and of their natural enemies
- 23/08/2012 - 14/05/2015 **Post-Doctoral fellowships** (2 contracts) and **research collaborator** (1 contract) on: 1) Introduction and reproduction of *Torymus sinensis*, parasitoid of the chestnut gall wasp in Umbria; 2) Development and implementations of integrated pest management against cotton-melon aphid, *Aphis gossypii* (Princ. investigator); 3) Introduction of the exotic parasitoid *Torymus sinensis* for the classical biocontrol of the Asian chestnut gall wasp, *Dryocosmus kuriphilus*
- 20/12/2008 - 31/10/2011 **Doctorate degree** in Basic and Applied Entomology. Dissertation title: Laboratory and field investigations on the establishment of an exotic biological control agent *Harmonia axyridis* (Pallas) (Coleoptera: Coccinellidae). Advisor: Prof. Carlo Ricci

#### Research and visiting activities outside Italy

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- 22/11/2022 -31/08/2024 **Visiting Professor** at the Institut de recherche en biologie végétale (IRBV), Université de Montréal (UDEM) within a Marie Skłodowska-Curie Individual Global Fellowship (<https://cordis.europa.eu/project/id/101026399>)
- 09/02/2022 - 15/02/2022 **Visiting Experienced Researcher (ER)** at Diputaciòn Provincial de Huesca (DPH), Spain, within the project H2020-MSCA-RISE-INTACT
- 02/02/2020 – 08/02/2020 Erasmus+ Staff Mobility for Training (Grant Agreements 2019-1-IT02-KA103-061339) at the Free University Berlin, Campus Dahlem, Berlin. Conducted activity: hands-on basic and applied aspects related to DNA metabarcoding
- 02/01/2019 - 17/01/2019  
and  
01/03/2016 - 17/03/2016 **Visiting ER** at Instituto Nacional de Tecnología Agropecuaria (INTA), Estación Experimental Agropecuaria, San Juan, Argentina, within the project H2020-MSCA-RISE-BEFORE (Dr. Mariela Torres Lab). Research activity within Task 3.2 - Evaluating phenotypic performance of varieties to the main biotic stresses
- 26/11/2018 - 17/12/2018  
and  
04/06/2018 - 24/06/2018 Erasmus+ Staff Mobility for Training (Grant Agreements 2018-1-IT02-KA103-047328 and 2017-1-IT02-KA103-035499) at the Ecology and Environmental Sciences Institution, INRA, Versailles, Francia (Dr. Emmanuelle Joacquin-Joly Lab). Conducted activity: RNA-seq and Galaxy bioinformatics pipeline to identify candidate olfactory genes expressed in the antennae of the ladybird *Harmonia axyridis*
- 03/08/2018 - 06/09/2018  
and  
29/07/2017 - 31/08/2017 **Visiting ER** at the Institut de Recherche en Biologie Végétale, Université de Montréal, Canada, within H2020-MSCA-RISE-INVASION project (Dr. Jacques Brodeur Lab). Research activity on Work Package 3–Use of molecular tools to define novel tritrophic interactions after alien herbivore invasion
- 03/07/2018 - 14/08/2018 Erasmus+ Staff Mobility for Training (Grant agreement 2017/1-IT02-KA103-036409) at the Centre for Ecology & Hydrology, Wallingford, United Kingdom (Prof. Helen Roy Lab). Conducted activity: Statistical analyses of long-term data of parasitoid prevalence upon an invasive alien species
- 27/07/2016 - 29/07/2016 Training School in “Meta-analysis of plant biotic interactions’ at SCENE field station, Glasgow, Scotland, within the COST FA1405 project. Travel grant funded by the COST project
- 23/08/2011 – 07/12/2011 **Short-term visiting scientist** at Dept. of Entomology, University of Kentucky, United States (Drs John Obrycki and James Harwood Labs). Research activity:

Development and application of molecular gut content analysis in native and invasive ladybird beetles

08/04/2010 – 21/07/2010 **Visiting scholar** at Centre for Ecology & Hydrology, Wallingford (Oxford), United Kingdom (Dr. Helen Roy Lab). Parasitization prevalence by phorid flies upon native and invasive ladybird beetles in the United Kingdom

#### *Awards and recognitions*

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- Editor's Choice: January 2021 by Beukeboom, L.W. (doi: 10.1111/eea.13010) relative to Rondoni G. et al., (2021), *Entomologia Experimentalis et Applicata*, 169: 6-27
- Best Poster Award assigned by the XLVIII Annual Congress of the Agronomical Italian Society (2019), to Massaccesi et al., "Ecosystem services during transition to an organic mulch-based no-till system"
- Seal of Excellence for the project proposal H2020-MSCA-IF-2018 entitled *Depicting the impact of an invasive alien crop pest on local ecological networks*
- Winner of the Most Cited Paper Award of 2017, *Insect Science journal* (USD 475) relative to Rondoni G. et al., (2015). *Insect Sci.*, 22: 719-730 (<https://entomology.ca.uky.edu/news-story/uk-entomology-paper-wins-most-cited-award>)
- International Organization or Biological Control (IOBC) Travel Award to attend and present results at the 3rd Meeting of the IOBC-WPRS Working Group "Benefits and Risks of Exotic Biological Control Agents", 12-15 May 2015, Bornholm, Denmark (€250)
- IOBC Travel Grant to attend and present results at the International Symposium 'Ecology of Aphidophaga 12', 09-13 September 2013, Belgrade, Serbia (€400)

#### *Formal participation at the scientific activities conducted with European Food Safety Authority (EFSA)*

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- Inclusion in the shortlist EFSA of external experts within the calls EOI/EFSA/2020/01 (from 13/10/2021 to 25/03/2024) and EOI/EFSA/2022/01 (from 05/04/2023 to 23/10/2027) in order to collaborate in the areas of plant health.
- Recruited Scientific Expert (from Nov 2021 to Dec 2023 and from Apr 2023 to Apr 2024) for the preparation of advanced drafts of Pest Survey Card, a toolkit focusing on surveillance of plant pest organisms of interest for the EU (link: <https://efsa.maps.arcgis.com/home/gallery.html>). The following pest cards have been published to date:
  - 1) EFSA (European Food Safety Authority), Rondoni G, Graziosi I (2022). Pest survey card on *Spodoptera litura*. EFSA Supporting Publications, 19: 7454E. <https://doi.org/10.2903/sp.efsa.2022.EN-7454>
  - 2) EFSA (European Food Safety Authority), Rondoni G, Graziosi I (2022). Pest survey card on *Exomala orientalis*. EFSA Supporting Publications, 19: 7628E. <https://doi.org/10.2903/sp.efsa.2022.EN-7628>
  - 3) EFSA (European Food Safety Authority), Rondoni G, Graziosi I (2023). Pest survey card on *Diabrotica barberi* and *Diabrotica virgifera zea*. EFSA Supporting Publications, 20: 7824E. <https://doi.org/10.2903/sp.efsa.2023.EN-7824>
  - 4) EFSA (European Food Safety Authority), Rondoni G, Graziosi I (2023). Pest survey card on *Listronotus bonariensis*. EFSA Supporting Publications, 20: 8185E. <https://doi.org/10.2903/sp.efsa.2023.EN-8185>
  - 5) EFSA (European Food Safety Authority), 2024. Pest survey card on *Thaumatotibia leucotreta*. EFSA supporting publication 2024: EN-8487. <https://efsa.europa.eu/plants/planthealth/monitoring/surveillance/thaumatotibia-leucotreta>.
- Recruited Hearing Expert (November 2023) for the scientific revision of the Pest Survey Card on *Dryocosmus kuriphilus*

In WOS / SCOPUS Journals (Articles published or under review):

- 1) Roy HE, Hesketh H, McCracken M, Comont R, Rondoni G, Poland R, Stentiford G, Hails RS (2010). Living with the enemy: insects and their pathogens. *British Wildlife* 22: 94-100.
- 2) Rondoni G, Onofri A, Ricci C (2012). Laboratory studies on intraguild predation and cannibalism among coccinellid larvae (Coleoptera: Coccinellidae). *European Journal of Entomology*, 109: 353-362.
- 3) Rondoni G, Onofri A, Ricci C (2012). Differential susceptibility in a specialised aphidophagous ladybird, *Platynaspis luteorubra* (Coleoptera: Coccinellidae), facing intraguild predation by exotic and native generalist predators. *Biocontrol Science & Technology*, 22: 1334-1350.
- 4) Comont RF, Purse BV, Phillips W, Kunin WE, Hanson M, Lewis OT, Harrington R, Shortall CR, Rondoni G, Roy HE (2014). Escape from parasitism by the invasive alien ladybird, *Harmonia axyridis*. *Insect Conservation and Diversity*, 7: 334-342.
- 5) Rondoni G, Ielo F, Ricci C, Conti E (2014). Intraguild predation responses in two aphidophagous coccinellids identify differences among juvenile stages and aphid densities. *Insects*, 5: 974-983.
- 6) Rondoni G, Athey KJ, Harwood JD, Conti E, Ricci C, Obrycki JJ (2015). Development and application of molecular gut-content analysis to detect aphid and coccinellid predation by *Harmonia axyridis* (Coleoptera: Coccinellidae) in Italy. *Insect Science*, 22: 719-730.
- 7) Tosi L, Beccari G, Rondoni G, Covarelli L, Ricci C (2015). Natural occurrence of *Fusarium proliferatum* on chestnut in Italy and its potential entomopathogenicity against the Asian chestnut gall wasp *Dryocosmus kuriphilus*. *Journal of Pest Science*, 88: 369-381.
- 8) Reale L, Tedeschini E, Rondoni G, Ricci C, Bin F, Frenguelli G, Ferranti F (2016). Histological investigation on gall development induced by a worldwide invasive pest, *Dryocosmus kuriphilus*, on *Castanea sativa*. *Plant Biosystems*, 150: 35-42.
- 9) Roy HE, Brown PMJ, Adriaens T, Berkvens N, Borges I, Clusella-Trullas S, Comont RF, De Clercq P, Eschen R, Estoup A, Evans EW, Facon B, Gardiner MM, Gil A, Grez AA, Guillemaud T, Haelewaters D, Herz A, Honek A, Howe AG, Hui C, Hutchison WD, Kenis M, Koch RL, Kulfan J, Lawson Handley L, Lombaert E, Loomans A, Losey J, Lukashuk AO, Maes D, Magro A, Murray KM, San Martin G, Martinkova Z, Minnaar IA, Nedved O, Orlova-Bienkowskaja MJ, Osawa N, Rabitsch W, Ravn HP, Rondoni G, Rorke SL, Ryndevich SK, Saethre M-G, Sloggett JJ, Soares AO, Stals R, Tinsley MC, Vandereycken A, van Wielink P, Vigišová S, Zach P, Zakharov IA, Zaviezo T, Zhao Z (2016). The harlequin ladybird, *Harmonia axyridis*: global perspectives on invasion history and ecology. *Biological Invasions*, 18: 997-1044.
- 10) Rondoni G, Ielo F, Ricci C, Conti E (2017). Behavioural and physiological responses to prey-related cues reflect higher competitiveness of invasive vs. native ladybirds. *Scientific Reports*, 7: 3716.
- 11) Rondoni G, Bertoldi V, Malek R, Foti MC, Peri E, Maistrello L, Haye T, Conti E (2017). Native egg parasitoids recorded from the invasive *Halyomorpha halys* successfully exploit volatiles emitted by the plant-herbivore complex. *Journal of Pest Science*, 90: 1087-1095.
- 12) Martorana L, Foti MC, Rondoni G, Conti E, Colazza S, Peri E (2017). An invasive insect herbivore disrupts plant volatile-mediated tritrophic signalling. *Journal of Pest Science*, 90: 1079-1085.
- 13) Rondoni G, Fenjan S, Bertoldi V, Ielo F, Djelouah K, Moretti C, Buonauro R, Ricci C, Conti E (2018). Molecular detection of field predation among larvae of two ladybird beetles is partially predicted from laboratory experiments. *Scientific Reports*, 8: 2594.
- 14) Rondoni G, Bertoldi V, Malek R, Djelouah K, Moretti C, Buonauro R, Conti E (2018). *Vicia faba* plants respond to oviposition by invasive *Halyomorpha halys* activating direct defences against offspring. *Journal of Pest Science*, 91: 671-679.
- 15) Rondoni G, Ricci C, Conti E (2019) Tracking seasonal emergence dynamics of an invasive gall wasp and its associated parasitoids with an open-source, microcontroller-based device. *Journal of Pest Science*, 92: 361-369.

- 16) Bertoldi V, Rondoni G, Brodeur J, Conti E (2019). An egg parasitoid efficiently exploits cues from a coevolved host but not those from a novel host. *Frontiers in Physiology*, 10: 746.
- 17) Massaccesi L, Rondoni G, Tosti G, Conti E, Guiducci M, Agnelli A (2020). Soil functions are affected by transition from conventional to organic mulch-based cropping system. *Applied Soil Ecology*, 153: 103639.
- 18) Massaccesi L, Rondoni G, Tosti G, Conti E, Guiducci M, Agnelli A (2020). Data on soil physicochemical properties and biodiversity from conventional, organic and organic mulch-based cropping systems. *Data in Brief*, 31: 105718.
- 19) Sevarika M, Rondoni G, Conti E, Romani R (2021). Antennal sensory organs and glands of the harlequin ladybird, *Harmonia axyridis*. *Entomologia Experimentalis et Applicata*, 169: 111-124.
- 20) Rondoni G, Borges I, Collatz J, Conti E, Costamagna AC, Dumont F, Evans EW, Grez AA, Howe AG, Lucas E, Maisonhaute J-É, Soares AO, Zaviezo T, Cock MJW (2021). Exotic ladybirds for biological control of herbivorous insects – a review. *Entomologia Experimentalis et Applicata*, 169: 6-27.
- 21) Conti E, Avila G, Barratt B, Cingolani F, Colazza S, Guarino S, Hoelmer K, Laumann RA, Maistrello L, Martel G, Peri E, Rodriguez-Saona C, Rondoni G, Rostas M, Roversi PF, Sforza RFH, Tavella L, Wajnberg E (2021). Biological control of invasive stink bugs: review of global state and future prospects. *Entomologia Experimentalis et Applicata*, 169: 28-51.
- 22) Rondoni G, Roman A, Meslin C, Montagné N, Conti E, Jacquín-Joly E (2021). Antennal transcriptome analysis and identification of candidate chemosensory genes of the harlequin ladybird beetle, *Harmonia axyridis* (Pallas) (Coleoptera: Coccinellidae). *Insects*, 12: 209.
- 23) Bertoldi V, Rondoni G, Peri E, Conti E, Brodeur J (2021). Learning can be detrimental for a parasitic wasp. *PLoS ONE*, 16: e0238336.
- 24) Rondoni G, Chierici E, Agnelli A, Conti E (2021). Microplastics alter behavioural responses of an insect herbivore to a plant-soil system. *Science of the Total Environment*, 787: 147716.
- 25) Rondoni G, Chierici E, Agnelli A, Conti E (2021). Effect of microplastics and watering regimes on a plant-soil system: Data on behavioural responses of an insect herbivore. *Data in Brief*, 38: 107297.
- 26) Revadi SV, Giannuzzi VA, Rossi V, Hunger GM, Conchou L, Rondoni G, Conti E, Anderson P, Walker WB, Jacquín-Joly E, Koutroumpa F, Becher PG (2021). Stage-specific expression of an odorant receptor underlies olfactory behavioral plasticity in *Spodoptera littoralis* larvae. *BMC Biology*, 19: 231.
- 27) Giovannini L, Sabbatini-Peverieri G, Marianelli L, Rondoni G, Conti E, Roversi PF (2022). Physiological host range of *Trissolcus mitsukurii*, a candidate biological control agent of *Halyomorpha halys* in Europe. *Journal of Pest Science*, 95: 605-618.
- 28) Rondoni G, Chierici E, Giovannini L, Sabbatini-Peverieri G, Roversi PF, Conti E (2022). Olfactory responses of *Trissolcus mitsukurii* to plants attacked by target and non-target stink bugs suggest low risk for biological control. *Scientific Reports*, 12: 1880.
- 29) Sevarika M\*, Rondoni G\*, Ganassi S, Pistillo OM, Germinara GS, De Cristofaro A, Romani R, Conti E (2022). Behavioural and electrophysiological responses of *Philaenus spumarius* to odours from conspecifics. *Scientific Reports*, 12: 8402.
- 30) Daher E, Cinosi N, Chierici E, Rondoni G, Famiani F, Conti E (2022). Field and laboratory efficacy of low-impact commercial products in preventing olive fruit fly, *Bactrocera oleae*, infestation. *Insects*, 13: 213.
- 31) Rondoni G, Chierici E, Marchetti E, Nasi S, Ferrari R, Conti E (2022). Improved captures of the invasive brown marmorated stink bug, *Halyomorpha halys*, using a novel multimodal trap. *Insects*, 13: 527.
- 32) Rossi G, Mattioli S, Rondoni G, Dal Bosco A, Servili M, Castellini C, Conti E (2022). Characterisation of fatty acid profiles of *Tenebrio molitor* larvae reared on diets enriched with edible oils. *Journal of Insects as Food and Feed*, 8: 901-912.
- 33) Daher E, Chierici E, Cinosi N, Rondoni G, Famiani F, Conti E (2022). Processing and analysis of behavioural data of the olive fruit fly, *Bactrocera oleae*, when exposed to olive twigs treated with different commercial products. *Data*, 7: 85.

- 34) Sevarika M, Di Giulio A, Rondoni G, Conti E, Romani R (2022). Morpho-functional analysis of the head glands in three Auchenorrhyncha species and their possible biological significance. *Microscopy and Microanalysis*, 28: 2177–2187.
- 35) Ferracini C, Saitta V, Rondoni G, Rollet I (2023). Variables affecting the Pine Processionary Moth flight: A survey in the North-Western Italian Alps. *Forests*, 14: 31.
- 36) Daher E, Rondoni G, Cinosi N, Conti E, Famiani F (2023). Particle films combined with propolis have positive effects in Reducing *Bactrocera oleae* attacks on olive fruits. *Horticulturae*, 9:397.
- 37) Chierici E, Sabbatini-Peverieri G, Roversi PF, Rondoni G, Conti E (2023). Phenotypic plasticity in an egg parasitoid affects olfactory response to odors from the plant-host complex. *Frontiers in Ecology and Evolution*, 11: 1233655.
- 38) Daher E, Chierici E, Urbani S, Cinosi N, Rondoni G, Servili M, Famiani F, Conti E (2023). Characterization of olive fruit damage induced by invasive Halyomorpha halys. *Insects*, 14:848.
- 39) Mattioli E, Giannuzzi VA, Chierici E, Betti A, Natale G, Famiani F, Petacchi R, Natale A, Rondoni G, Conti E. Variables affecting the infestation of *Bactrocera oleae*, a key pest of olive plants, in Central Italy. Under review.
- 40) Rondoni G, Napoli F, Chierici E, Conti E. An open-source, microcontroller based-device to evaluate insect learning. Under review.

#### *Editorial participation and manuscripts reviewed*

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- Executive Guest Editor of a Special Issue in *Biological Control*, entitled "Recent advances in characterizing trophic connections in biological control", editors G. Rondoni, J. Collatz, M. Jonsson, O. Rennstam-Rubbmark, E. Riddick, J. Schmidt, J. Brodeur (<https://www.sciencedirect.com/journal/biological-control/special-issue/10DJFFMKQ7L>) (deadline for submission: 30 April 2024)
- Member, since 2023, of the Topic Editor board of *Diversity* (IF: 2.400, ISI Ranking Q2, cat. Biodiversity Conservation) ([https://www.mdpi.com/journal/diversity/topical\\_advisory\\_panel](https://www.mdpi.com/journal/diversity/topical_advisory_panel))
- Member, since 2021, of the Editorial board (Review Editor) of *Frontiers in Physiology* (IF: 4.566, ISI Ranking Q1, cat. Physiology) (<https://www.frontiersin.org/journals/physiology/editors>)
- Member, since 2020, of the Topic Editor board of *Insects* (IF: 2.769, ISI Ranking Q1, cat. Entomology) ([https://www.mdpi.com/journal/insects/topical\\_advisory\\_panel](https://www.mdpi.com/journal/insects/topical_advisory_panel))
- Guest co-editor of the Proceedings of the 6th international Entomophagous Insects Conference, Perugia, Italy, September 9-13 2019, to be published as a Special Issue on *Entomologia Experimentalis et Applicata*, IF: 2.250. ISI Ranking Q2 (cat. Entomology) (<https://onlinelibrary.wiley.com/toc/15707458/2021/169/1>)
- Reviewer for the following international journals: *Agriculture*, *Agriculture and Forest Entomology*, *Arthropod Plant Interactions*, *BioControl*, *Biological Control*, *Bulletin of Insectology*, *Diagnostics*, *Ecological Entomology*, *Ecotoxicology and Environmental Safety*, *Entomologia Experimentalis et Applicata*, *European Journal of Agronomy*, *European Journal of Entomology*, *Florida Entomologists*, *Frontiers in Ecology and Evolution*, *Frontiers in Plant Science*, *Frontiers in Physiology*, *Genes*, *Insect Science*, *Insects*, *International Journal of Pest Management*, *Journal of Asian and Pacific Entomology*, *Journal of Biogeography*, *Journal of Ethology*, *Journal of Pest Science*, *Molecular Ecology*, *Molecular Ecology Resources*, *Oikos*, *Open Journal of Forestry*, *PlosOne*, *Redia*, *Royal Society Open Source*, *Science of the Total Environment*, *Scientific Reports*, *Sustainability*, *The Science of Nature - Naturwissenschaften*, *Toxins*, *Tropical Medicine and Infectious Disease*. He has been served as reviewer for 1 project within the Excellence Initiative for the site Bourgogne Franche-Comté sponsored by the Université Bourgogne Franche-Comté (UBFC)

#### *Oral presentations at national and international meetings/conferences/informal meetings:*

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- Invited speaker at the XX International Plant Protection Congress that will be held in Athens, Greece, 1-5 July, 2024. Presentation title: "Insecticide exposure affects foraging behaviour of the egg parasitoid *Trissolcus japonicus*"
- Invited seminar (by Zoom) at Department of Entomology of the University of Manitoba (Canada), 27 February, 2024. Presentation title: "The invasive stink bug, *Halyomorpha halys*: Trophic interactions and sustainable control methods".
- Participation at the XXVI Italian Congress of Entomology, Turin, Italy, June, 7-11, 2021. Presentation title (in Italian, English abstract): "Odorant receptor expression-related modulation in behavior during larval development in African cotton leaf worm, *Spodoptera littoralis*"
- Participation at the 6th international Entomophagous Insects Conference, Perugia, Italy, September, 9-13, 2019. Presentation title: "Using semiochemicals for parasitoid recruitment: a meta-analysis "
- Invited talk at the Centre for Ecology & Hydrology, Wallingford, UK, 9 July 2018. Presentation title: "Brown marmorated stink bug, *Halyomorpha halys*: community interactions and potential control".
- Participation at the 5th international Entomophagous Insects Conference, Kyoto, Japan, October, 16-20, 2017. Presentation title: "Trophic interactions and competition among aphidophagous Coccinellidae that share prey resources"
- Participation at the Ladybird Molecular Workshop, Cambridge, United Kingdom, April, 13, 2017. Invited talk on "Asymmetric predation among two field-collected ladybird beetles is detected using PCR"
- "Exotic insects of agricultural interest", Instituto Nacional de Tecnología Agropecuaria (INTA), Estación Experimental Agropecuaria, San Juan, Argentina, March, 10, 2016. Oral presentation within the framework of H2020-MSCA-RISE "Bioresources for Oliviculture"
- Participation at the 4th international Entomophagous Insects Conference, Torre del Mar, Malaga, October, 4-9, 2015. Presentation title: "Behavioural responses of ovipositing ladybird *Harmonia axyridis* to the *Vicia faba* - aphid complex provide evidence of indirect induced plant resistance"
- Participation at the 3<sup>rd</sup> Meeting of the IOBC-WPRS Working Group "Benefits and Risks of Exotic Biological Control Agents", Bornholm, Denmark, May, 12-15, 2015. Presentation title: "Olfactory responses of predatory ladybird beetles to a plant-herbivore complex"
- Participation at the International Symposium "Ecology of Aphidophaga 12", Belgrade, Serbia, September, 9-13, 2013. Poster title: "Detection of predation by *Harmonia axyridis* (Coleoptera: Coccinellidae) under field condition using polymerase chain reaction"
- Participation at the 1<sup>st</sup> Annual Meeting of the PhD Network "Insect Science", Impruneta, Italy, November, 15-18, 2010. Presentation title: "Intraguild interactions and contest duration in coccinellids"
- Participation at the International Symposium "Ecology of Aphidophaga 11", Perugia, Italy, September, 19-24 2010. Presentation title: "Laboratory interactions between *Harmonia axyridis* and native coccinellids"
- Participation at the Ladybird Research Day, Centre for Ecology & Hydrology, Wallingford (UK), July, 6, 2010. Presentation title: "Coccinellids natural enemies in the UK"

#### *Formal participation in Research Projects*

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- "Bioresources for Oliviculture" - BEFORE. H2020 - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE), H2020-MSCA-RISE-2015. Role: Co-Responsible for the secondments of Drs. Elia Choueri e Zinette Moussa from LARI, Lebanon at the DSA3-UNIPG. (2015 - 2019)
- Applied Project between the Municipality of Spoleto (Perugia, Italy) – and the Department of Agricultural and Environmental Sciences (UNIPG) for the constitution of a centre for the reproduction of the exotic biocontrol agent *Torymus sinensis*. Role: Scientific coordinator at DSA3. (2013-2014)

- "SM@RT METEO: development of an innovative Decision Support System for monitoring phytopathological pests and diseases" - PSR Umbria 2014-2020, 16.1. Role: Technical referent at DSA3-UNIPG. (2017 - ongoing)
- "Soil biodiversity and ecosystem functionality: comparison between organic and conventional production methods" - DSA3 basic-research funding project. Role: participant. (2016 - 2017)
- "Effects of micro- and nanoplastics on the soil chemical characteristics and mesofauna" - DSA3 basic-research funding project. Role: participant. (2018 - 2020)
- "Depicting the impact of an invasive alien crop pest on local ecological networks" – PESTNET. H2020 - Marie Skłodowska-Curie Individual Global fellowship. Role: Experienced Researcher object of the fellowship. (2022-2024)

#### *Participation in Symposium committee*

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- Member of the Local Organizing Committee of the 11th International Symposium of the IOBC Working Group 'Ecology of Aphidophaga' held in Perugia, Italy (Sept. 19-24, 2010) and hosting about 100 participants from 31 Countries
- Member of the Local Organizing Committee of 6th international Entomophagous Insects Conference, Perugia, Italy (Sept. 9-13, 2019) hosting 141 participants

#### *Participation at mid-term meetings of EU projects and at European Researcher's Night*

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- Mid-term review meeting, H2020-MSCA-RISE - BEFORE, July, 25 2016, Italian Confederation of Farmers (CIA), Perugia, Italy
- Intermediate meeting, H2020-MSCA-RISE - INVASION, June, 20 2017, Benaki Phytopathological Institute, Athens, Greece
- Participation at the SHARPER, European Researcher's Night, September, 27 2019, Perugia, Italy

#### *Teaching responsibilities and collaborations at the DSA3-UNIPG*

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- Responsible for "Control of Post-harvest Diseases and Pests - Agricultural Entomology" Teaching unit within the MSc degree in Food Technology and Biotechnology. Academic Years 2016/17, 2017/18 and 2018/19. For the three Academic Years, the evaluation of the unit was well above the average of the semester and of the degree course
- Responsible for "Basic Informatics" Teaching unit within all the DSA3 degree courses. Academic Year 2018/19
- Responsible for Word, Office, Power-Point in "Basic Informatics" Teaching unit within all the DSA3 and for all the degree courses. Academic Years 2016/17 and 2017/18
- Lesson entitled: "Insect-plant interactions: plants' resistance to insect pests", 23 October 2019. The lesson was held to MSc students attending the teaching unit of Integrated management of pests and diseases (Responsible of the unit: Prof. Roberto Romani)
- Lessons entitled: "Experimental methods in agricultural entomology", 16 April 2019. The lesson was held to MSc students attending the teaching unit of Methodology of experimental in agriculture (Responsible of the unit: Prof. Andrea Onofri)
- Lesson entitled: "Fundamentals of agricultural entomology and herbivorous pests of cereals", 23 October 2019. The lesson was held to MSc students attending the teaching unit of General agronomy and forage systems (Responsible of the unit: Prof. Andrea Onofri)



- Lessons entitled: "Experimental methods in agricultural entomology", 9 May 2017. The lesson was held to MSc students attending the teaching unit of Methodology of experimental in agriculture (Responsible of the unit: Prof. Andrea Onofri)
- Co-organization of practical lessons for the "Entomological Biotechnologies" (Professor in charge: Eric Conti) MSc teaching unit, including DNA extraction, RNA extraction and gene-expression analysis. All Academic Years from 2015/16 to 2022/23
- Co-advisor of 4 PhD students (Dr. Fulvio Ielo; Dr. Valeria Bertoldi, Dr. Elissa Daher, Dr. Elisabetta Mattioli), and of >100 BSc and MSc students within the activities of their degree Thesis. Academic Year 2009-2010 and succeeding academic years
- Member of committees for students' profit evaluation within the teaching units of: Control of post-harvest diseases and pests, all Academic Years from 2016/17 to 2022/23; Entomo-pathological advanced biotechnologies, all Academic Years from 2016/17 to 2022/23; Entomology and plant pathology, all Academic Years from 2014/15 to 2022/23; Integrated management of pests and diseases, all Academic Years from 2014/15 to 2017/2018; Crop protection I and II, Academic Years 2016/17, 2021/22, and 2022/23
- Since 2015 he has been served as member in some Final dissertation committees for the degree courses in: Agricultural and Environmental Sciences, Food Science and Technology, Agricultural and environmental biotechnology (BSc Courses) and Sustainable rural development and Food technology and biotechnology (MSc Courses)

*Teaching activities and student mentorship with the Centre International de Hautes Études Agronomiques Méditerranéennes – Istituto Agronomico Mediterraneo di Bari (CIHEAM-IAM.B)*

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- Co-Advisor at DSA3-UNIPG for the development of the research activities within the Master of Science in "Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops" (CIHEAM-IAM.B): 1) Robert Malek, Dissertation title: "Direct and indirect responses of *Vicia faba* to oviposition and feeding by the Brown Marmorated Stink Bug, *Halyomorpha halys* (Heteroptera: Pentatomidae)"; 2) Saleh Fenjan, Dissertation title: "Molecular detection of trophic interactions among lady beetles and aphids in melon crop"
- Teaching lessons on "Identification, biology, damages, monitoring and control measures of *Epitrix* spp. and *Diabrotica virgifera virgifera*" within the project "PHYTO BiH - New actions to support the phytosanitary sector in Bosnia and Herzegovina for the harmonization with EU standards (25-26 May 2021). Organized by CIHEAM-IAM.B
- Teaching lessons on "Biology and identification of insect pests of tomato" (28/04/2022) e "Monitoring and control of insects of economic importance in tomato crops" (29/04/2022) within the project "Technical Support-intervention WFP Libya Interim Country Strategic Plan 2019-2021" by CIHEAM-IAM.B
- Teaching lessons on "Field and laboratory tools for insect collection, identification and classification" (from 31/01/2020 to 03/02/2022), and "Forecasting modeling for diseases and pests" (10/02/2022) within Unit IV "Diagnostics and monitoring of plant pests" and Unit V "Sustainable pre- and post-harvest control strategies" of the Master in "Innovative approaches to IPM of Mediterranean Fruit and Vegetable Crops", Academic Year 2021-2022
- Teaching lessons on "Insects identification and characterization" (from 03/04/2023 to 07/04/2023), and "Insects Forecasting and Modeling" (from 11/04/2023 to 14/04/2023) within the Unit VI "Pests of Fruit Tree and Vegetable Crops" of the Master in "Innovative approaches to IPM of Mediterranean Fruit and Vegetable Crops", Academic Year 2022-2023

*Teaching at vocational education and training certified courses in agricultural sciences*

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- Teaching unit(s) consisted in practical and theoretical lessons on biology and management of agricultural, ornamental, post-harvest and urban arthropod pests, including quarantine pests. Courses targeted farmers, technicians, agricultural engineers, or phytosanitary inspectors and were related to:
  - Use of agrochemicals (2015 – 2024, all years, several courses)
  - Organic agriculture (2016 – 2024, all years, several courses)
  - Low-input agriculture (2016 – 2024, all years, several courses)
  - Phytosanitary consultancy (2016 and 2023, two courses)
  - Management of urban and post-harvest pests (2017, one course)
  - Management of ornamental plants and urban parks (2019 – 2023, five courses)
  - Continuing education for phytosanitary inspectors of Umbria and Marche Region (2019, one course)
  - Grapevine and olive pests and diseases (2020 and 2023, three courses)

*In compliance with the GDPR 679/16- " General Data Protection Regulation ", I hereby authorize you to use and process my personal details contained in this document.*

Dr Gabriele Rondoni

