
Davide Rassati

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Google Scholar: <https://scholar.google.com/citations?user=PziFkLoAAAAJ&hl=it&oi=ao>

EMPLOYMENT

09/01/2023 – today: **Associate Professor**

Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Italy

14/09/2020 – 08/01/2023: **Contract Researcher (Italian profile RTD/B) / Assistant professor**

Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Italy

02/05/2020 – 13/09/2020: **Post-doc**

Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Italy

Project: “Microorganisms as hidden players in insect invasions”

02/05/2017 – 01/05/2020: **Contract Researcher (Italian profile RTD/A)**

Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Italy

01/04/2015 – 31/03/2017: **Post-doc**

Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Italy

Project: “Invasion ecology of exotic bark and ambrosia beetles and their interactions with native species”

EDUCATION AND TRAINING

01/01/2012 – 31/12/2014: **PhD in Crop Sciences**

Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Italy

PhD thesis: “From arrival to spread: improving the early-detection of alien wood-boring beetles” defended on 27/02/2015

01/10/2008 – 15/12/2010: **Master Degree in Forest and Environmental Sciences**

University of Padova, Italy – Grade: 110/110 with honors

Graduation thesis: “Monitoring of *Monochamus galloprovincialis* (Coleoptera; Cerambycidae), potential vector of the pine wood nematode”

01/10/2004 – 10/04/2008: **Bachelor Degree in Environmental Science and Technology**

University of Udine, Italy – Grade: 102/110

Graduation thesis: “Effects of humic substances on proliferation and maturation of pro-embryogenic masses of *Abies cephalonica* Loud”

EDITORIAL ACTIVITY IN INTERNATIONAL PEER-REVIEWED JOURNALS

Member of the Editorial Board

February 2025 – now: Associate Editor for “*Scientific Reports*”

November 2023 – now: Associate Editor for “*Entomologia Generalis*”

December 2019 – now: Associate Editor for “*Environmental Entomology*”

December 2019 – now: Topic Editor for “*Insects*”

July 2018 – now: Associate Editor for “*Frontiers in Forests and Global Change*” – section “*Forest Disturbances*”

Guest Editor for Special Issues

2020 – *Frontiers in Forests and Global Change* – Special issue entitled “*Invasions and Impacts of Exotic Species in Forests*” (Guest Editors: Davide Rassati, Alberto Santini, Francesco Boscutti)

Link: <https://www.frontiersin.org/research-topics/9621/invasions-and-impacts-of-exotic-species-in-forests>

2020 – *Insects* – Special issue entitled “*Surveillance tools and monitoring strategies for native and exotic forest insects*” (Guest Editors: Davide Rassati, Jon Sweeney, Joseph Francese)

Link: https://www.mdpi.com/journal/insects/special_issues/surveillance_forest

2018 – *Journal of Pest Science* – Special issue entitled “*Invasive insect pests of forests and urban trees: pathways, early detection and management*” (Guest Editors: Davide Rassati, Jon Sweeney, Brett Hurley, Nicolas Meurisse, Jian Duan, Andrea Battisti, Christian Stauffer)

Link: <https://link.springer.com/journal/10340/92/1>

Reviewer

Total: 157

Journals: *Acta Fytotechnica and Zootechnica* (1), *Alpine Entomology* (1), *Annals of Applied Biology* (3), *Annals of the Entomological Society of America* (1), *Agricultural and Forest Entomology* (17), *Australasian Plant Pathology* (2), *Biological Invasions* (3), *BioResources* (1), *Biotropica* (2), *Canadian Entomologist* (3), *Crop Protection* (2), *Diversity* (2), *Ecography* (1), *Ecoscience* (1), *Ecosphere* (1), *Ecological Applications* (5), *Ecological Entomology* (2), *Entomologia Experimentalis et Applicata* (1), *Entomologia Generalis* (2), *Environmental Entomology* (9), *Florida Entomologist* (2), *Forestry* (1), *Forests* (2), *Frontiers in Ecology and the Environment* (1), *Frontiers in Forests and Global Change* (3), *Frontiers in Insect Science* (1), *Frontiers in Microbiology* (1), *iForest* (1), *Insects* (13), *International Journal of Pest Management* (6), *iScience* (1), *Journal of Applied Ecology* (2), *Journal of Applied Entomology* (3), *Journal of Economic Entomology* (2), *Journal of Integrative Agriculture* (3), *Journal of Integrated Pest Management* (1), *Journal of Medical Entomology* (2), *Journal of Insect Science* (5), *Journal of Pest Science* (32), *Management of Biological Invasions* (1), *New Zealand Journal of Forestry Science* (1), *Neobiota* (3), *PeerJ* (1), *Phytoparasitica* (4), *Plos One* (2), *Redia* (2), *Revista de la Facultad de Ciencias Agrarias* (1), *Scientific Reports* (2), *Sylwan* (1), *Sustainability* (2)

Certified reviewer activity: <https://www.webofscience.com/wos/author/rid/AFF-8810-2022>

International institutions: CABI datasheets (1)

National institutions: evaluation of scientific articles in the context of the Assessment of the Quality of Research (VQR) for the period 2015-2019 for the National Agency for the Evaluation of the University and Research (6)

ACTIVITIES AS REVIEWER OF SCIENTIFIC PROJECTS

Reviewer of project proposals

April 2024 (1 proposal) – The Israel Science Foundation – Individual Research Grants call 2023-2024

March 2024 (1 proposal) - The Smart Loire Valley Programme - LE STUDIUM professorship campaign 2024

November 2018 (1 proposal) and November 2019 (1 proposal) – King Fahd University of Petroleum & Minerals (KFUPM) – Dhahran, Saudi Arabia

Reviewer of funded projects

Member of the “Guidance Committee” for the project RT 22/4 - SCOLIBE “Risk analysis of harmful bark and ambrosia beetles in the Belgian context” (PI: Jean-Claude Gregoire) (April 2022-December 2025)

GRANTS

Principal investigator

1) 2023-2025 – project FORBIO “Improving forest insect biosecurity in the era of globalization” (MUR call: PRIN 2022 PNRR). Total amount: 224.723 € / Import for my research unit: 125.393 €

2) 2023-2024 – project STOP “Survey Tools for Conifer Pests” (EFSA call: GP/EFSA/PLANTS/2022/05). Total amount: 170.000 € / Import for my research unit: 102.000 €

3) 2022-2026 – project SAPTREES “Saperda tridentata on European elms and other tree species” (EFSA call: GP/EFSA/ALPHA/2021/07). Total amount: 226.714 € / Import for my research unit: 196.436 €

4) 2020-2022 – STARS call (Supporting TAlent in ReSearch @ Università di Padova). Project entitled: “*Microorganisms as hidden players in insect invasions* (MOPI)” – Total amount: 170.900 €

5) 2019 – Monitoring of harmful organisms in the Veneto region – Veneto region – Total amount: 21.165 €

Responsible of the research unit

1) 2023-2025 – project MONTANA “*Ulmus glabra* Protection in Italian Peninsula” (MUR call: PRIN 2022). Total amount: 234.924 € / Import for my research unit: 61.619 €

2) 2021-2024 – project IASPP “Innovative Approaches to Survey broadleaved tree Pests and Pathogens” (EFSA call: GP/EFSA/ALPHA/2021/08) – Total amount: 250.000 € / Amount of the research unit: 100.000 €

3) 2021-2022 – progetto EUPHRESCO “Developing and assessing surveillance methodologies for *Agrilus* beetles” (EUPHRESCO 2020-A-337). Link: <https://zenodo.org/record/4672531#.YT9WSJ0zZPZ>

Responsible for research actions

1) 2018-2022 – Horizon2020 project entitled “HOMED – Holistic Management of Emerging Forest Pests and Diseases”. Link: <http://homed-project.eu/>

2) 2024-ongoing – Horizon Europe project entitled “FORSAID - Forest surveillance with artificial intelligence and digital technologies”. Link: <https://forsaid.eu/>

AWARDS

2020 – Italian Academy of Entomology – Osella award - Amount: 1.500 €

2019 – The Georgofily Academy - Department Nord Est - Award entitled “*Le molteplici vie alla sostenibilità nei settori agricolo, zootecnico e forestale*” – Amount: 1,200 €

2016 – Entomological Society of America enhancement funds program for attending the 25th International Congress of Entomology (ICE) held in Orlando, Florida, USA – Amount: 1,000 \$

SUPERVISING AND TUTORING

Member of PhD committees

PhD student: Antonio Gugliuzzo / Università of Catania (Italy) / period: 2019-2022 / role: member of the scientific committee

PhD student: Dragos Cocos / Swedish University of Agricultural Sciences (SLU), Uppsala (Sweden) / period: 2023 / role: opponent during the PhD defense

Supervision of graduated or post-doc students

1. Person: Valerio Caruso - Period: January 2023 / December 2025 - Project: FORBIO
2. Person: Kahraman Ipekdal - Period: July 2022 / June 2024 - Project: IASPP
3. Person: Giacomo Santoiemma - Period: July 2022 / June 2023 - Project: SAPTREES
4. Person: Giacomo Cavaletto - Period: January 2021 / November 2021 - Project: STARS MOPI

Supervision of PhD students

1. Person: Laura Rita Besana – Period: October 2023 / September 2026
2. Person: Elia Scabbio – Period: November 2025 / October 2028

Co-supervision of PhD students

1. Person: Juan Carlos Cambronero – Period: October 2021 / September 2024

Supervising activities of bachelor students

1. Student: Giovanni Spagnolo – Thesis title: “Effect of species-specific visual stimuli on trap catches of the exotic longhorn beetle *Neoclytus acuminatus*” – Bachelor Degree: Land and Landscape Restoration and Enhancement, University of Padova - Academic Year: 2022/2023
2. Student: Davide Damiani – Thesis title: *Coleoptera damaging wood of Vitis vinifera (Vitaceae) and related monitoring methods* – Bachelor Degree: Viticulture Science and Technology, University of Padova – Academic Year: 2021/2022

3. Student: Davide Maistrello – Thesis title: *Effect of ethanol concentration on ambrosia beetle catches in traps* – Bachelor Degree: Forestry and Environmental Technology, University of Padova – Academic Year: 2021/2022
4. Student: Alice Tassetto – Thesis title: *Species-specific effects of ethanol concentration on host colonization in ambrosia beetles* – Bachelor Degree: Forestry and Environmental Technology, University of Padova – Academic Year: 2021/2022
5. Student: Simone Moino – Thesis title: *Effect of trap color on longhorn beetle catches* – Bachelor Degree: Forestry and Environmental Technology, University of Padova – Academic Year: 2018/2019
6. Student: Manuel Tolin – Thesis title: *Effect of trap color and habitat type on catches of the longhorn beetle *Xylotrechus stebbingi** – Bachelor Degree: Land and Landscape Restoration and Enhancement, University of Padova – Academic Year: 2018/2019
7. Student: Alessandro Ferrari – Thesis title: *Vertical stratification of ambrosia beetles in broadleaf forests (Coleoptera: Curculionidae; Scolytinae)* – Bachelor Degree: Agricultural Science and Technology, University of Padova – Academic Year: 2017/2018

Supervising activities of master students

1. Student: Elia Scabbio – Thesis title: *Using X-ray tomography to investigate species-specific colonization patterns of ambrosia beetles in flooded trees* – Master Degree: Forest Science – University of Padova – Academic year: 2022/2023
2. Student: Alice Martinelli – Thesis title: *Improving efficiency of surveillance protocols for longhorn and jewel beetles (Coleoptera; Cerambycidae and Buprestidae)* – Master Degree: Forest Science, University of Padova – Academic Year: 2022/2023
3. Student: Francesca Carloni – Thesis title: *Effects of host trees on colonization patterns by ambrosia beetles under different abiotic stressors* – Master Degree: Forest Science, University of Padova – Academic Year: 2021/2022
4. Student: Alice Martinelli – Thesis title: *Improving efficiency of surveillance protocols for longhorn and jewel beetles (Coleoptera; Cerambycidae and Buprestidae)* – Master Degree: Forestry and Environmental Science, University of Padova – Academic Year: 2021/2022
5. Student: Caterina De Sandre – Thesis title: *Effect of landscape on longhorn beetle (Coleoptera; Cerambycidae) communities in areas surrounding international ports of entry* – Master Degree: Forestry and Environmental Science, University of Padova – Academic Year: 2018/2019
6. Student: Alessandro Fantoni – Thesis title: *Exploring ambrosia beetle (Coleoptera; Curculionidae; Scolytinae) response to ethanol baited logs* – Master Degree: Forest Science, University of Padova – Academic Year: 2017/2018
7. Student: Filippo Rigodanza – Thesis title: *Trapping variables affecting ambrosia beetle catches in deciduous forests* – Master Degree: Forest Science, University of Padova – Academic Year: 2017/2018

Tutoring activities

1. Tutor in the courses on “Plant Health Surveys”, funded by the “Better Training for Safer Food” initiative (<http://btsf-aenor.com/plant-health-surveys>), for the following sessions: session 1 (Bari, Italy, 24-25 October 2016); session 3 (Vigo, Spain, 27-28 February 2017); session 4 (Bari, Italy, 3-4 April 2017); session 9 (Bari, Italy, 5-6 February 2018); session 10 (Riga, Latvia, 5-6 March 2018); session 11 (Bari, Italy, 12-13 November 2018); session 12 (Monaco, Germany, 10-11 December 2018); session 16 (Bucharest, Romania, 16-17 September 2019); session 17 (Bucharest, Romania, 09-10 December 2019); session 21 (Virtual Meeting, 20-24 September 2021); session 23 (Virtual meeting, 06-10 December 2021); session 25 (Virtual meeting, 14-18

February 2022); session 27 (Virtual meeting, 4-8 April 2022), session 31 (Nizza, France, 03-06 October 2022); session 32 (Milan, Italy, 08-11 November 2022); session 34 (Vigo, Spain, 13-16 February 2023); session 37 (Naples, Italy, 30 January – 02 February 2024); session 38 (Santiago de Compostela, Spain, 1-4 October 2024); session 39 (Turin, Italy, 5-8 November 2024)

2. Tutor in the courses on “*New Plant Health Regime - Course 1: General training for plant health control staff on the new EU plant health regime*” funded by the “*Better Training for Safer Food*” initiative for the following sections: n° 2 (Virtual Meeting, 8-15 November 2021)

3. Tutor in the courses on “*Identification and control of outbreaks of harmful organisms: forestry and general environment (incl. urban areas)*” funded by the “*Better Training for Safer Food*” initiative for the following sections: i) (Nice, France, 09-13 May 2022); ii) Vigo, Spain, 24-28 April 2023; iii) Munich, Germany, 19-22 February 2024.

4. Lecturer in the on-line course on “*Mediterranean forest health in the context of global change*” organized by the CIHEAM IAM – Mediterranean Agronomic Institute of Zaragoza – 22 November – 01 December 2021

TEACHING

Whole courses

Ecology of Forest Insect Invasions – course of the Master Degree in “Forest Science” – University of Padova
Academic year: 2024/2025 (6 CFU, 48 hours/year)

Biodiversity and Ecosystem Services in Forest – course of the Master Degree in “Forest Science” – University of Padova
Academic year: 2020/2021, 2021/2022, 2022/2023, 2023/2024, 2024/2025 (6 CFU, 48 hours/year)

Animal Biology – course of the Bachelor Degree in “Viticulture and Enology Science and Technology” – University of Padova
Academic year: 2019/2020, 2020/2021, 2021/2022, 2022/2023, 2023/2024 (6 CFU, 48 hours/year), 2024/2025 (3CFU, 16 hours/year)

Entomology of Ornamentals – course of the Bachelor Degree in “Land and Landscape Restoration and Enhancement” – University of Padova
Academic years: 2016/2017, 2017/2018, 2018/2019 (3 CFU, 24 hours/year)

Applied Statistics – course of the Bachelor Degree in “Viticulture and Enology Science and Technology” – University of Padova
Academic year: 2017/2018, 2018/2019, 2019/2020 (4 CFU, 32 hours/year)

Only lab activities

Animal Biology – course of the Bachelor Degree in “Viticulture and Enology Science and Technology” – University of Padova
Academic years: 2017/2018, 2018/2019 (8 hours/year)

Agricultural Entomology – course of the Bachelor Degree in “Agricultural Science and Technology” – University of Padova
Academic year: 2017/2018 (16 hours/year)

Agricultural Entomology – course of the Bachelor Degree in “Viticulture and Enology Science and Technology” – University of Padova
Academic year: 2017/2018 (8 hours/years)

PUBLICATIONS

Updated on 05/09/2025, source: Scopus

H-index: 25

Number of citations: 1599

Number of papers in the period 2012-2025: 46

Scopus profile: <https://www.scopus.com/authid/detail.uri?authorId=55350755600>

Papers published in peer-reviewed journals (* indicates corresponding author/s)

1. Besana L*, Santoiemma G, Cavaletto G, Morgante G, Sweeney JD, Johns R, Spaethe J, van der Kooi CJ, Van Rooyen K, Gutowski JM, Plewa R, **Rassati D*** (2025) Visual stimuli displayed on traps enhance attraction of longhorn beetles. *Journal of Pest Science*. <https://doi.org/10.1007/s10340-025-01919-w>
2. Cambronerio-Heinrichs JC*, Biedermann PHW, Besana L, Battisti A, **Rassati D** (2025) Bacterial communities associated with ambrosia beetles: current knowledge and existing gaps. *Frontiers in Microbiology* 16,1569105. doi:10.3389/fmicb.2025.1569105
3. Santoiemma G*, Sweeney J, Booth EG, Cavaletto G, Curletti G, Devine SM, Francese JA, Franzen EKL, Giannone F, Giasson M, Gutowski JM, Hughes C, Kimoto T, Kostanowicz C, Mokrzycki T, Plewa R, Ray AM, Qingfan M, Williams D, Yan L, **Rassati D*** (2025) Efficacy of unbaited and baited green multi-funnel traps for detection of *Agrilus* species and other wood-boring beetle taxa. *Journal of Pest Science* <https://doi.org/10.1007/s10340-024-01865-z>
4. Cambronerio-Heinrichs JC*, Ranger CM, Santoiemma G, Cavaletto G, Carloni F, Battisti A, Meggio D, **Rassati D** (2025) Host plant selection and performance of ambrosia beetles in flood-stressed versus ethanol-injected trees provide implications for management strategies. *Journal of Economic Entomology*, 118, 253-261
5. Nardi D, Bares H, Clay NA, Verble R, **Rassati D**, Marini L, Thomason J, Riggins JJ (2024) Tradeoffs in longleaf pine conservation: prescribed fire management increases exotic ambrosia beetle abundance in pine-hardwood forests. *Forest Ecology and Management* 571, 122210
6. Santoiemma G*, Battisti A, Courtin C, Curletti G, Faccoli M, Feddern N, Francese J, Franzen EKL, Giannone F, Gossner MM, Kostanowicz C, Marchioro M, Nardi D, Ray AM, Roques A, Sweeney J, Van Rooyen K, Webster V, **Rassati D*** (2024) Testing a trapping protocol for generic surveillance of wood-boring beetles in heterogeneous landscapes. *NeoBiota* 95, 77-95
7. Yilmaz A*, Santoiemma G, Cavaletto G, Barnett J, **Rassati D**, Reding ME, Ranger CM (2024) Trap captures of invasive ambrosia beetles (Coleoptera; Curculionidae) as influenced by ethanol release rate. *Agricultural and Forest Entomology* 26, 522-533
8. Cambronerio-Heinrichs JC*, Santoiemma G, Battisti A, Cavaletto G, Meggio D, Ranger CM, Scabbio E, **Rassati D** (2024) Simulated flood-stress and X-ray tomography unveil susceptibility of different tree taxa to ambrosia beetles. *Forest Ecology and Management*, 568, 122106
9. Dodds KJ*, Sweeney J, Francese JA, Besana L, **Rassati D*** (2024) Factors affecting catches of bark beetles and woodboring beetles in traps. *Journal of Pest Science*, 97, 1767–1793
10. Santoiemma G*, Williams D, Booth EG, Cavaletto G, Connell J, Curletti G, de Groot M, Devine SM, Enston A, Francese JA, Franzen EKL, Giasson M, Groznik E, Gutowski JM, Hauptman T, Hinterstoisser W, Hoch G, Hoppe B, Hughes C, Kostanowicz C, Peterson D, Plewa R, Ray AM, Sallé A, Sućko K, Sweeney J, Van Rooyen K, **Rassati D*** (2024) Efficacy of trapping protocols for *Agrilus* jewel beetles (Coleoptera: Buprestidae): a multi-country assessment. *Journal of Pest Science*, 97, 1795–1810

11. Isitt R*, Liebhold A, Turner R, Battisti A, Bertelsmeier C, Blake R, Brockerhoff E, Heard S, Krokene P, Økland B, Nahrung H, **Rassati D**, Roques A, Yamanaka T, Pureswaran D (2024) Asymmetrical insect invasions between three world regions. *NeoBiota*, 90, 35-51
12. Cambronero-Heinrichs JC*, Battisti A, Biedermann P, Cavaletto G, Castro-Gutierrez V, Favaro L, Santoiemma G, **Rassati D** (2023) Erwiniaceae bacteria play defensive and nutritional roles in two widespread ambrosia beetles. *FEMS Microbiology Ecology*, 99, fiad144
13. Gugliuzzo A*, Gusella G, Leonardi GR, Costanzo MB, Ricupero M, **Rassati D**, Biondi A, Polizzi G (2023) From a cause of rapid fig tree dieback to a new threat to mango production: the invasive bark beetle *Cryphalus dilutus* Eichhoff (Coleoptera: Curculionidae, Scolytinae) and its associated fungi found on mango trees in Europe. *EPPO Bulletin*, 53, 663-670
14. Ruzzier E*, Martinez-Sanudo I, Cavaletto G, Faccoli M, Smith SM, Cognato AI, **Rassati D** (2023) Detection of native-alien populations of *Anisandrus dispar* (Fabricius, 1792) in Europe. *Journal of Asia-Pacific Entomology*, 26, 1902137
15. Mas H, Santoiemma G, Lencina JL, Gallego D, Perez-Laorga E, Ruzzier E, **Rassati D*** (2023) Investigating beetle communities in and around entry points can improve surveillance at national and international scale. *NeoBiota*, 85, 145-165
16. Roques A*, Ren L, **Rassati D**, Shi J, Akulov E, Audsley N, Auger-Rozenberg M-A, Avtzis D, Battisti A, Bellanger R, Bernard A, Bernadinelli I, Branco M, Cavaletto G, Cocquempot C, Contarini M, Courtial B, Courtin C, Denux O, Dvořák M, Fan J, Feddern N, Francese J, Franzen EKL, Garcia A, Georgiev G, Georgieva M, Giarruzzo F, Gossner M, Gross L, Guarneri D, Hoch G, Hölling D, Jonsell M, Kirichenko N, Loomans A, Luo Y, McCullough D, Maddox C, Magnoux E, Marchioro M, Martinek P, Mas H, Mériguet B, Pan Y, Phélut R, Pineau P, Ray AM, Roques O, Ruiz M-C, Sartoi Monteys V, Speranza S, Sun J, Sweeney JD, Touroult J, Valladares L, Veillat L, Yuan Y, Zalucki MP, Zou Y, Žunič-Kosi A, Hanks LM, Millar JG (2023) Worldwide tests of generic attractants, a promising tool for early detection of non-native cerambycid species. *NeoBiota*, 84, 169-209
17. Nahrung H*, Liebhold AM, Brockerhoff EG, **Rassati D** (2023) Forest insect biosecurity: processes, patterns, predictions, pitfalls. *Annual Review of Entomology*, 68, 211-229
18. Cavaletto G, Ranger CM, Reding ME, Montecchio L, **Rassati D*** (2023) Species-specific effects of ethanol concentration on host colonization by four common species of ambrosia beetles. *Journal of Pest Science*, 96, 833-843
19. Ruzzier E*, Bani L, Cavaletto G, Faccoli M, **Rassati D** (2022) *Anisandrus maiche* Kurentzov (Curculionidae; Scolytinae), an Asian species recently introduced and now widely established in Northern Italy. *BioInvasion Records*, 11, 652-658
20. Gugliuzzo A, Biedermann PHW, Carrillo D, Castrillo LA, Egonyu JP, Gallego D, Haddi K, Hulcr J, Jactel H, Kajimura H, Kamata N, Meurisse N, Li Y, Oliver JB, Ranger CM, **Rassati D**, Stelinski L, Sutherland R, Tropea Garzia G, Wright MG, Biondi A* (2021) Recent advances toward the sustainable management of invasive *Xylosandrus* ambrosia beetles. *Journal of Pest Science*, 94, 615-637
21. Cavaletto G, Faccoli M, Ranger CM, **Rassati D*** (2021) Ambrosia beetle response to ethanol concentration and host tree species. *Journal of Applied Entomology*, 145, 800-809
22. Cavaletto G, Faccoli M, Marini L, Spaethe J, Giannone F, Moino S, **Rassati D*** (2021) Exploiting trap colors to improve surveys of longhorn beetles. *Journal of Pest Science*, 94, 871-883
23. Ranger CM*, Reding ME, Addesso C, Ginzel M, **Rassati D** (2021) Semiochemical-mediated host selection by *Xylosandrus* spp. ambrosia beetles (Coleoptera: Curculionidae) attacking horticultural tree crops: a review of basic and applied science. *Canadian Entomologist*, 153, 103-120

24. **Rassati D***, Marchioro M, Flaerthy L, Poloni R, Edwards S, Faccoli M, Sweeney J (2021) Response of native and exotic longhorn beetles to common pheromone components provides partial support for the pheromone-free space hypothesis. *Insect Science*, 28, 793-810
25. Cavaletto G*, Faccoli M, Marini L, Spaethe J, Magnani G, **Rassati D*** (2020) Effect of trap color on captures of bark- and wood-boring beetles (Coleoptera; Buprestidae and Scolytinae) and associated predators. *Insects*, 11, 749
26. Marchioro M*, **Rassati D**, Faccoli M, Van Rooyen K, Kostanowicz C, Webster V, Mayo P, Sweeney J (2020) Maximizing bark and ambrosia beetle catches in trapping surveys for longhorn and jewel beetles. *Journal of Economic Entomology*, 113, 2745-2757
27. **Rassati D***, Contarini M*, Ranger CM, Cavaletto G, Rossini L, Speranza S, Faccoli M, Marini L (2020) Fungal pathogen and ethanol affect host selection and colonization success in ambrosia beetles. *Agricultural and Forest Entomology*, 22, 1-9
28. **Rassati D***, Marini L, Malacrinò A* (2019) Acquisition of fungi from the environment modifies ambrosia beetle mycobiome during invasion. *Peer J*, e8103
29. Poland T*, **Rassati D*** (2019) Improved biosecurity surveillance of non-native forest insects: a review of current methods. *Journal of Pest Science*, 92, 37-49
30. Meurisse N*, **Rassati D**, Hurley BP, Brockerhoff EG, Haack RA (2019) Common pathways by which non-native forest insects move internationally and domestically. *Journal of Pest Science*, 92, 13-27
31. **Rassati D***, Marini L, Marchioro M, Rapuzzi P, Magnani G, Poloni R, Di Giovanni F, Mayo P, Sweeney J (2019) Developing trapping protocols for wood-boring beetles associated with broadleaf trees. *Journal of Pest Science*, 92, 267-279
32. **Rassati D***, Haack RA, Knizek M, Faccoli M (2018) National trade can drive range expansion of bark- and wood-boring beetles. *Journal of Economic Entomology*, 111, 260-268
33. Malacrinò A*, **Rassati D***, Schena L, Battisti A, Palmeri V (2017) Fungal communities associated to bark and ambrosia beetles trapped at international harbours. *Fungal Ecology*, 28, 44-52
34. Faccoli M, Simonato M, **Rassati D*** (2016) Life-history and geographical distribution of the walnut twig beetle, *Pityophthorus juglandis* (Coleoptera: Scolytinae), in Southern Europe. *Journal of Applied Entomology*, 140, 697-705
35. **Rassati D***, Faccoli M, Chinellato F, Hardwick S, Suckling DM, Battisti A (2016) Web-based automatic traps for early detection of alien wood-boring beetles. *Entomologia Experimentalis et Applicata*, 160, 91-95
36. Faccoli M*, Campo G, Perrotta G, **Rassati D** (2016) Two newly introduced tropical bark and ambrosia beetles (Coleoptera: Curculionidae, Scolytinae) damaging figs (*Ficus carica*) in southern Italy. *Zootaxa*, 4138, 189-194
37. **Rassati D***, Faccoli M, Haack RA, Rabaglia RJ, Petrucco Toffolo E, Battisti A, Marini L (2016) Bark and ambrosia beetles show different invasion patterns in the USA. *Plos ONE*, 11, e0158519
38. **Rassati D***, Faccoli M, Battisti A, Marini L (2016) Habitat and climatic preferences drive invasions of alien ambrosia beetles in deciduous temperate forests. *Biological Invasions*, 18, 2809-2821
39. **Rassati D***, Faccoli M, Marini L, Haack RA, Battisti A, Petrucco Toffolo E (2015) Exploring the role of wood waste landfills in the early detection of non-native wood-boring beetles. *Journal of Pest Science*, 88, 563-572

40. **Rassati D***, Faccoli M, Petrucco Toffolo E, Battisti A, Marini L (2015) Improving the early detection of alien wood-boring beetles in ports and surrounding forests. *Journal of Applied Ecology*, 52, 50-58 (26 citations)
41. **Rassati D***, Petrucco Toffolo E, Roques A, Battisti A, Faccoli M (2014) Trapping wood boring beetles in Italian ports: a pilot study. *Journal of Pest Science*, 87, 61-69
42. **Rassati D**, Petrucco Toffolo E, Battisti A, Faccoli M* (2012) Monitoring of the pine sawyer beetle *Monochamus galloprovincialis* by pheromone traps in Italy. *Phytoparasitica*, 40, 329-336

Book chapters

1. Pureswaran D*, Meurisse N, **Rassati D**, Liebhold AM, Faccoli M (2022) Climate change and invasion by non-native bark and ambrosia beetles. In: Hofstetter RW & Gandhi K (Eds) *Bark beetle management, ecology and climate change*. Academic Press. pp. 3-30.
2. **Rassati D***, Lieutier F, Faccoli M (2016) Alien wood-boring beetles in Mediterranean regions. In: Paine TD & Lieutier F (Eds) *Insects and diseases of Mediterranean Forest Systems*, Springer, Dordrecht. pp. 293-327

Editorials

1. Sweeney J*, **Rassati D**, Meurisse N, Hurley B, Duan J, Stauffer C, Battisti A (2019) Special issue on invasive pests of forests and urban trees: pathways, early detection, and management. *Journal of Pest Science*, 92, 1-2

Publications in divulgative journals

1. **Rassati D**, Cavaletto G, Santoiemma G, Besana L (2025) Integrazione di stimoli visivi nei protocolli di monitoraggio per coleotteri del legno. *Atti Accademia Nazionale Italiana di Entomologia*, Year LXXII, 113-117.
2. **Rassati D**. Invasioni di insetti esotici dannosi alle piante: stato attuale e prospettive future (2021). *Atti Accademia Nazionale Italiana di Entomologia*, Year LXIX, 53-57.
3. **Rassati D**, Petrucco Toffolo E, Battisti A, Marini L, Benedetti M, Bernardinelli I, Stasi G, Bono G, Federico R, Chiarot E, Vettorazzo M, Zanini G, Conti F, Saraceno F, Privitera S, Cutuli A, Dangelico A, Griffo RV, Minucci E, Martino V, Ramassini W, Musio F, Ricci E, Tallevi G, Faccoli M (2014). Un protocollo per il monitoraggio di insetti esotici nei porti italiani. *Informatore agrario*, 34, 51-53

Other documents

1. European Food Safety Authority (EFSA), Ipekda K, **Rassati D**, Battisti A, Jaques Miret JA, Carotti L, Salinari F, Rzepcka D (2025) Pest survey card on *Olygonichus perditus*. *EFSA Supporting Publications*, 22, 9450E
2. European Food Safety Authority (EFSA), Ipekda K, **Rassati D**, Battisti A, Jaques Miret JA, Carotti L, Salinari F, Rzepcka D (2025) Pest survey card on *Byakushincecis eppoi*. *EFSA Supporting Publications*, 22, 9449E
3. European Food Safety Authority (EFSA), Bragard C, Baptista P, Chatzivassiliou E, Di Serio F, Gonthier P, Jaques Miret JA, Fejer Justesen A, Magnusson CS, Milonas P, Navas Cortes JA, Parnell S, Potting R, Reignault PL, Stefani E, Thulke HH, Van der Werf W, Vicent Civera A, Yuen J, Zappalà L, Grégoire JC, Battisti A, Malumphy C, Faccoli M, Kertesz V, Marchioro M, Martinez-Sanudo I, Ortis G, **Rassati D**, Ruzzier E, MacLeod A (2024) Pest categorisation of non-EU Scolytinae on non-coniferous hosts. *EFSA Journal*, 22, e8889

4. European Food Safety Authority (EFSA), Ipekda K, **Rassati D**, Battisti A, Graziosi I (2024) Pest survey card on *Thaumetopoea processionea*. *EFSA Supporting Publications*, 20, EN-8485
5. European Food Safety Authority (EFSA), Battisti A, Pecori F, **Rassati D**, Santini A, Delbianco A, Graziosi I, Camilleri M (2023) Characterisation of conifers in the EU: a tool for crop-based survey of Union quarantine pests. *EFSA Supporting Publications*, 21, EN-8471
6. European Food Safety Authority (EFSA), Ipekda K, **Rassati D**, Graziosi I (2023) Pest survey card on *Gonipterus scutellatus* species complex. *EFSA Supporting Publications*, 20, EN-8382
7. European Food Safety Authority (EFSA), Ipekda K, **Rassati D**, Graziosi I (2023) Pest survey card on *Arrhenodes minutus*. *EFSA Supporting Publications*, 20, EN-8219
8. European Food Safety Authority (EFSA), Ipekda K, **Rassati D**, Camilleri M, Graziosi I (2023) Pest survey card on *Pseudopityophthorus minutissimus* and *P. pruinus*. *EFSA Supporting Publications*, 20, EN-8170

SEMINARS AND CONGRESSES

Invited seminars

1. **Rassati D** – “*Surveillance of wood-boring beetles using traps: current status and new opportunities*” – bachelor course in “Frontiers in Forest Sciences”, degree in “Forest Sciences” University of Freiburg, Germany – 18/10/2024 (online)
2. **Rassati D** – “*Mechanisms driving invasion of non-native forest insects*” – University of Wurzburg, Germany – 18/07/2018

Scientific talks as invited speaker

1. **Rassati D** – “*Combining visual and olfactory cues to improve surveys of longhorn beetles*” – Round table on “Recent advances on wood-boring beetles” organized by the University of Catania– Catania, Italy – 31/05/2024
2. **Rassati D** (2024) – “*Integrating visual stimuli in trapping protocols for wood-boring beetles*” – Round table on “Integration of semiochemical and semiophysical stimuli for the development of multi-modal systems for monitoring and control of insect pests”– Firenze, Italia – 16/02/2024
3. **Rassati D**, Cavaletto G, Santoiemma G, Spaethe J (2023) – “*Combining visual and olfactory cues to improve surveys of longhorn beetles*” – Entomological Society of America annual meeting 2023 – National Harbor, Maryland (USA) – 05-08/11/2023
4. **Rassati D**, Cavaletto G, Marini L, Faccoli M – “*Exploiting trap color to improve survey and detection of native and exotic longhorn beetles (Coleoptera, Cerambycidae)*” – XXVI International Congress of Entomology (ICE) – Helsinki, Finland – 17-22/07/2022
5. **Rassati D** – “*Invasions of non-native forest insects: mechanisms and management*” – Annual Meeting of the Swiss Entomological Society (SES) – Lugano, Switzerland – 21-22/05/2022 (plenary)
6. **Rassati D**, Branco M, Courtin C, Faccoli M, Feddern N, Franzen E, Garcia A, Gossner M, Jonsell M, Marchioro M, Martinek P, Roques A, Sweeney J, Marini L – “*Exploiting species-habitat networks to improve wood-boring beetle surveillance in areas surrounding entry-points*” – North American Forest Insect Work Conference – Virtual meeting – 26-28/05/2021

7. **Rassati D** – “*Exploitation of the visual ecology of woodboring beetles for survey and detection*” – IUFRO webinar series on “Behavioral and chemical ecology of bark and woodboring insects” – Virtual meeting – 04/02/2021

8. **Rassati D**, Contarini M, Ranger CM, Faccoli M, Marini L, Speranza S, Cavaletto G – “*Fungal pathogen and ethanol content affect ambrosia beetle host selection and colonization success*” – 68° Entomological Society of America annual meeting – Virtual meeting - 11-25/11/2020

9. **Rassati D**, Haack RA, Knizek M, Faccoli M – “*Native species trapped at ports-of-entry can help target likely invaders*” – 30th USDA Interagency Meeting on Invasive Species – Annapolis, Maryland, USA – 14-17/01/2020

10. **Rassati D**, Monahan W, Lopez V, Rabaglia R, Sapio F, Krist F, Marini L – “*Understanding factors affecting habitat invasibility for improving early-detection of exotic bark and ambrosia beetles*” – 65° Entomological Society of America annual meeting – Denver, Colorado, USA – 5-8/11/2017

Scientific talks as speaker

1. **Rassati D**, Nardi D, Branco M, Courtin C, Faccoli M, Feddern N, Franzen E, Garcia A, Gossner M, Jonsell M, Marchioro M, Martinek P, Roques A, Sweeney J, Marini L – “*Exploiting species-habitat networks to improve wood-boring beetle surveillance in areas surrounding entry-points*” – IUFRO all Division 7 (Forest Health, Pathology and Entomology) 2022 conference – Lisbon, Portugal – 6-9/09/2022

2. **Rassati D** – “*Invasions by wood-boring ambrosia beetles: patterns and mechanisms*” – European PhD Network "Insect Science" – XII Annual Meeting 17-19/11/2021

3. **Rassati D** – “*Exotic insect pests: current situation and future perspectives*” – 25° Italian Congress of Entomology – Osella award ceremony – Torino, Italia – 7-11/06/2021

4. **Rassati D**, Haack RA, Knizek M, Faccoli M – “*Native species trapped at ports-of-entry can help target likely invaders*” – XI European Congress of Entomology – Napoli, Italy – 2-6/07/2018

5. **Rassati D**, Marini L, Faccoli M, Rapuzzi P, Poloni R, Battisti A, Sweeney S – “*The effect of forest landscape, trap height, trap color, and lure on longhorn beetle communities detected in survey traps*” IUFRO 125th Anniversary Congress – Freiburg, Germany – 18-22/09/2017

6. **Rassati D**, Faccoli M, Battisti A, Marini L – “*Effect of habitat and climatic preferences on alien ambrosia beetle invasions in deciduous temperate forests*” – 25° International Congress of Entomology – Orlando, Florida, USA – 25-30/09/2016

7. **Rassati D**, Faccoli M, Battisti A, Marini L – “*Effect of climate and forest type on the invasion process of non-native ambrosia beetles*” – 25th Italian Congress of Entomology – Padova, Italy – 20-24/06/2016

8. **Rassati D** – “*Improving the early detection of alien insects using traps: the case of wood-boring beetles*” practical session – “Health checks and smart treatments for our plants” – Pavillion EU, EXPO, Milan, Italy – 15/07/2015

9. **Rassati D**, Marini L, Battisti A, Faccoli M – “*Early-detection of alien species in high-risk sites: the case of wood-boring beetles*” – Methodology of Forest Insect and Disease Survey in Central Europe, “Fluctuation of insects and diseases” – IUFRO WP 7.03.10 – San Michele all’Adige, Trento, Italy – 22-26/06/2015

10. **Rassati D**, Petrucco Toffolo E – “*Improving the early detection of alien insects using traps: the case of wood-boring beetles*” – Commission for Phytosanitary Measures 10, Market place on New Diagnostic Technologies – FAO, Rome, Italy – 19/03/2015

11. **Rassati D**, Petrucco Toffolo E, Battisti A, Marini L, Faccoli M – “*An experimental approach for the early detection of alien xylophagous insects in high-risk sites*” – 24th Italian Congress of Entomology – Orosei, Italy – 9-14/06/2014
12. **Rassati D**, Faccoli M, Battisti A, Marini L - “*Exploring habitat and host preferences in invasive alien ambrosia beetles (Coleoptera; Scolytinae)*” - 5th European PhD Meeting in Insect Science – Orosei, Italy – 7-8/06/2014
13. **Rassati D**, Faccoli M, Petrucco Toffolo E, Battisti A, Marini L - “*Detection of alien wood boring beetles in Italian ports: a nationwide study*” – 61st Entomological Society of America meeting – Austin, Texas, USA – 9-13/11/2013
14. **Rassati D**, Favaro R, Jan de Kogel W - “*Trapping quarantine pests: hands on session*” - 2nd EPPO/Q-DETECT Workshop for Phytosanitary Inspectors – Ljubljana, Slovenia – 18-21/02/2013
15. **Rassati D**, Battisti A - “*Monitoring of wood boring beetles in ports: a case study from Italy*” - 2nd EPPO/Q-DETECT Workshop for Phytosanitary Inspectors – Ljubljana, Slovenia – 18-21/02/2013
16. **Rassati D**, Marini L, Battisti A, Faccoli M - “*Exploring introduction pathways of alien xylophagous insects in Italy*” - 3rd European PhD Meeting in Insect Science – Ivrea, Italy – 06-09/11/2012

Scientific session organization

1. **Rassati D**, Roversi PF – “*Forest Entomology*” – 28th Italian Congress of Entomology (CNIE) – Siena, Italy – 16-20 June 2025 (<https://cnie2025siena.com/sessioni/>)
2. **Rassati D**, Brockerhoff E, Hofstetter R – “*Recent advances in bark and ambrosia beetle (Scolytinae) ecology and management*” – XXVI International Congress of Entomology (ICE) – Helsinki, Finland – 17-22/07/2022
3. Sweeney J, **Rassati D** – “*Invasive species surveillance: new methods and tools for survey and early detection*” – IUFRO 125th Anniversary Congress – Freiburg, Germany – 18-22/09/2017

Conference organization

1. Member of the Scientific committee for the 28th Italian Congress of Entomology (CNIE) – Siena, Italy – 16-20 June 2025 (<https://cnie2025siena.com/>)
2. Member of the Organizing committee for the workshop “Statistically sound and crop-based surveillance on broadleaved trees in the EU” targeting EU phytosanitary services and part of the project IASPP – Florence, Italy – 19-20 September 2024
3. Member of the Scientific committee for the 2nd AISSA #under40 meeting - Sassari, Italy - 01-02/07/2021
4. Member of the Organizing committee for the 1st AISSA #under40 meeting - San Donà di Piave, Venezia, Italy - 16-17/05/2019

INSTITUTIONAL RESPONSIBILITIES

January 2024 – now: Member of the Commission for Internationalization of the DAFNAE department, University of Padova

January 2021 – now: Member of the Board of the PhD in Crop Science, DAFNAE department, University of Padova

November 2019 – now: Member of the Commission for Communication Activities of the DAFNAE department, University of Padova

January 2019 – September 2019: Representative of the Researchers in the DAFNAE department council, University of Padova

VISITS AND EXPERIENCES IN FOREIGN INSTITUTIONS

1. January 2020 (1 week) – Visiting Researcher at *the USDA Agricultural Research Service, Horticultural Insects Research Lab* (Wooster, Ohio, USA) to learn pest management strategies for exotic ambrosia beetles in horticulture under the supervision of Dr. Christopher Ranger (USDA)
2. June 2015 (2 weeks) – Visiting Post-Doc at the *Max Planck Institute for Chemical Ecology* (Jena, Germany) to learn ambrosia beetle rearing techniques under the supervision of Dr. Peter Biedermann
3. October 2013 – March 2014 (6 months) - Visiting PhD student at the *Michigan State University* (East Lansing, Michigan, USA) under the supervision of Robert Haack (USDA) and Deborah McCullough (MSU)

MAJOR COLLABORATIONS

Dr. Jon Sweeney – “Improving trapping strategies for the early-detection of exotic wood-boring beetles” – Natural Resources Canada’s Atlantic Forestry Centre, Fredericton, New Brunswick, Canada

Dr. Christopher Ranger – “Exploring the effect of biotic factors on host selection mechanisms in ambrosia beetles” – USDA Agricultural Research Service, Wooster, Ohio, USA

Dr. Antonino Malacrinò – “Exploring fungal communities associated with bark and ambrosia beetles using metabarcoding” – Ohio State University, Columbus, Ohio, USA

Dr. Peter Biedermann – “Exploring competition mechanisms between native and exotic ambrosia beetle species” – University of Wurzburg, Wurzburg, Germany

ADDITIONAL INFO

Language skills: Italian (mother tongue) and English (C1)

IT skills: Microsoft Office (Excel, Word, PowerPoint), GIS (ArcGis, AdbToolBox), R

Full clean driving license

Member of the Italian Entomological Society since 2013