

Personal Information

Name: Gianandrea Salerno
 Place and DOB: Erice (Trapani), Italy. February 20, 1966.
 Nationality: Italian
 Current position: Associate Professor of Entomology
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Education

2001 Ph.D. degree in Agricultural Entomology. Dipartimento di Arboricoltura e Protezione delle Piante, University of Perugia. Thesis "Evaluation of host specificity in pentatomid parasitoids through their response to the host unit" (Tutor Prof. Ferdinando Bin)
 1992 Agronomist examination
 1992 "Laurea" (Master's Degree) in Agriculture - crop protection (University of Palermo) (5-year course); thesis: "Bioethological observations on the olive pest *Palpita unionalis* Hübner" (Tutor Prof. Giovanni Liotta)

Professional Development

2018 (Dec.)–present Associate Professor of Entomology at the Dipartimento di Scienze Agrarie, Alimentari e Ambientali, University of Perugia
 2017 National Scientific Qualification (Abilitazione Scientifica Nazionale) as Full professor of Entomology (SSD AGR/11, Settore concorsuale 07/D1)
 2014 National Scientific Qualification (Abilitazione Scientifica Nazionale) as Associate professor of Entomology (SSD AGR/11, Settore concorsuale 07/D1)
 2008-2018 (Nov.) Permanent Researcher (Assistant Professor of Entomology) at the Dipartimento di Scienze Agrarie, Alimentari e Ambientali, University of Perugia
 2006-07 Post-doctoral position, 2 years (Dipartimento di Scienze Agrarie e Ambientali - Entomologia - University of di Perugia). Research project "Induced defenses in crop plant"
 2001-05 Post-doctoral position, 5 years (Dipartimento di Arboricoltura e Protezione delle Piante - Entomologia - University of Perugia), Research project "Host selection behaviour on egg parasitoids: biological control and pentatomid – Trissolcus spp. associations".
 1998-2000 Ph.D. course in Agricultural Entomology, 3 years (Dipartimento di Arboricoltura e Protezione delle Piante - Entomologia - University of Perugia). Researches on: "Evaluation of host specificity in pentatomid parasitoids through their response to the host unit".
 1997 Collaboration in a research project on insects of wooden structures of historical-artistic interest (Prof. Giovanni Liotta, Agricultural Entomology Institute - University of Palermo), funded by the "Assessorato ai Beni Culturali e Ambientali della Regione Sicilia"
 1993-1997 Collaboration in field and laboratory researches on agricultural pest insects (Prof. Giovanni Liotta, Agricultural Entomology Institute - University of Palermo)

International Experiences

2024-December Erasmus grant for training at Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universität Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2023/2024

2023-December	Erasmus grant for training at Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2022/2023
2022-December	Erasmus grant for training at Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2020/2021
2021-December	Erasmus grant for training at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2020/2021
2021-June-July	DAAD (German Academic Exchange) grant at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – “Research Stays for University Academics and Scientists, 2021”, (57552334).
2020-September	Erasmus grant for training at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2019/2020
2019-December	COST (ENBA, CA 15216) Short-Term Scientific Missions (08/12/2019 al 22/12/2019) on the Mechanical ecology of fruit-insect interaction in <i>Bactrocera oleae</i> (Diptera: Tephritidae), at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany)
2019-July/August	Erasmus grant for training at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2019/2020
2018-December	Erasmus grant for training at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2018/2019
2018-July	Research activity for 18 days (08-07/26-07) at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany)
2017-December	Erasmus grant for training at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2017/2018
2017-July	COST (ENBA, CA 15216) Short-Term Scientific Missions (22/06/2017 to 08/07/2017) on the Characterization of the attachment ability of <i>Nezara viridula</i> , at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany)
2016-December	Erasmus grant for training at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany) – Staff mobility for training assignment (STA) AA: 2016/2017
2016-July	Research activity for 14 days at the Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universitat Zu Kiel (Germany)
2016 January	Erasmus grant for training at the Angers University –INRA (France) – Staff mobility for training assignment (STA) AA: 2015/2016
2015 May	Erasmus Professor at the Christian Albrechts University of Kiel (Germany) – Staff mobility for teaching assignment (STA) AA: 2014/2015.
1999	Research stage, 2 months, (Research station of INRA (Institute National de la Recherche Agronomique - Antibes - France) on biology and ecology of <i>Trissolcus basal</i>
1996	Research stage, 1 month, founded by ENEA-National Agency for Alternative Energy (Stride program, Actinia project), (Department of Entomology, Wageningen Agricultural University, The Netherlands) on selection criteria and quality control of parasitoids for biological control of <i>Bemisia tabaci</i>
1995	Research stage, 5 months, founded by COMETT (Research station for nursery stock - Boomteelt Praktijkonderzoek), Boskoop – The Netherlands). Collaboration

in two research projects on biological control of aphids and of *Tetranychus urticae* Koch in open fields.

National and International Projects

2022-2025	Coordinator of the research project “Biogenic nanoparticles for sustainable agriculture” PNRR VITALITY.
2023	Member of ECOST (European Cooperation in Science and Technology), COST Action CA21159 “Understanding interaction light - biological surfaces: possibility for new electronic materials and devices”
2022-2025	Coordinator of the research project “Biogenic nanoparticles for sustainable agriculture”, (European Union – NextGenerationEU under the Italian Ministry of University and Research (MUR) National Innovation Ecosystem grant ECS00000041 – VITALITY)
2021-2023	Local unit responsibility “DAMATIRA: aDvanced Analysis and Modeling of Acoustic Responses of plants” funded by Italian Ministry of University and Research. PRIN 2020
2019-2021	Coordinator of research project “Segnali volatili mediatori di resistenza nelle interazioni multiple pianta-insetto-fungo” funded by University of Perugia (Ricerca di Base 2019)
2018	Member of ECOST (European Cooperation in Science and Technology), ENBA COST Action CA15216 “European Network of Bioadhesion Expertise”
2018-2020	Coordinator of research project “Effetto priming nelle interazioni multiple pianta-insetto-fungo” funded by University of Perugia (Ricerca di Base 2018)
2015-2016	Coordinator of research project “Le tracce chimiche di <i>Nezara viridula</i> : caratterizzazione ultrastrutturale delle ghiandole e ruolo del secreto nella localizzazione da parte del parassitoide” funded by University of Perugia (Ricerca di Base 2014).
1996-present	Participation in about 25 national and international research projects on chemical ecology of insect parasitoids and biological control of insect pests on Mediterranean crops, (University of Palermo and University of Perugia) (Funded by Italian Ministry of the University and Scientific Research – PRIN, FISR, FIRB - by CNR-National Research Council and by Italian Ministry of Agriculture).

Teaching

2020- present	Perugia’s University Lecturer: “Agricultural Entomology” in beer crops pest control
2018- present	Perugia’s University Lecturer: “Entomology” in biotechnology
2018- present	Perugia’s University Lecturer: “Agricultural Entomology” in stored product pest control
2010-present	Perugia’s University Lecturer: “Entomology” in grapevine pest control.
2008-2013	Perugia’s University Lecturer: “Entomology” in stored product pest control.
2008-2009	Perugia’s University Lecturer: “Integrated pest management”
2008-2009	Perugia’s University Lecturer: “Entomology and biomonitoring”
2001-2008	Series of lectures at the University of Perugia in Entomology and Integrated pest management.

Editor and Reviewer Activity for Scientific Journals

2021- present	Member of Editorial board di “Journal of Plant Interactions”
2019-present	Member of Editorial Board of “Zoology”
2019-present	Member of Editorial Board of “Scientific Reports”
2019-2020	Guest editor for the special issue “Plant Surface and Its Role in Arthropod-Plant Interactions” in Insects
2019-2020	Guest editor for the special issue “IEIC6” in Entomologia Experimentalis et Applicata

2000-present	Referee for international journals as Pest Management Science, Biocontrol, Scientific report, PlosOne, Entomologia Experimentalis et Applicata, European Journal of Entomology, Journal of Pest Science, Journal of Insect Science, Neotropical Entomology, Journal of Economic Entomology.
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Others

2021-October 2025	Deputy director for Research of the Dipartimento di Scienze Agrarie, Alimentari e Ambientali
2021 and 2024	Deputy director for VQR of the Dipartimento di Scienze Agrarie, Alimentari e Ambientali
2020-present	Coordinator of the curriculum “Sistemi produttivi sostenibili e ambiente” of the PhD course in “Scienze e Biotecnologie Agrarie, Alimentari e Ambientali”
2016 (April)-2017(May)	Member of “Giunta di Dipartimento” of the Dipartimento di Scienze Agrarie, Alimentari e Ambientali
2015-2024	Member of “Presidio di Qualità” of the Dipartimento di Scienze Agrarie, Alimentari e Ambientali, University of Perugia
2013-present	Member of the Board of Professors of the PhD course in “Scienze e Biotecnologie Agrarie, Alimentari e Ambientali”, University of Perugia
2012-2014	Member of the “Giunta” of the Faculty of Agriculture in the University of Perugia.
2009-2013	Member of the Board of Professors of the PhD course in “Scienze Agrarie e Ambientali”, University of Perugia
2008-2009	Member of the Board of Professors of the PhD course in “Arboricoltura e Protezione delle Piante”, University of Perugia

Organization of Congresses and Scientific Meetings

2019	Member of the Organizing Committee for the IEC6, 6th International Entomophagous Insects Conference, Perugia, 9-13 September 2019
2010	Member of the Organizing Committee for the "XI International Symposium on Ecology of Aphidophaga", Perugia, 19-24 September 2010.
2005	Member of the Organizing Committee for the "XX Congresso nazionale Italiano di Entomologia", Perugia, 13-18 June 2005.
2002	Scientific member of the Organizing Committee for the "IOBC - Egg Parasitoids, 6th International Symposium", Perugia, 15-18 September 2002.
2001	Scientific member of the Organizing Committee for the “2001 International Joint Meeting on Ephemeroptera and Plecoptera”, Perugia, 5-11 August 2001.

International collaborations

Tor Jorgen Almaas, Department of Biology, Norwegian University of Science and Technology, Trondheim (Norway)

Ahmet Bayram, Dicle University, Department of Plant Protection, Diyarbakir, Turkey

Adolfo Cordero Rivera Grupo de Ecología Evolutiva e da Conservación, Departamento de Ecología e Biología Animal, Universidade de Vigo, Pontevedra, (Spain)

Ola M. Fincke, Ecology and Evolutionary Biology Graduate Program, Department of Biology, University of Oklahoma, Norman, OK, U.S.A

Elena Gorb Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universität, Kiel (Germany)

Stanislav Gorb, Zoological Institute: Functional Morphology and Biomechanics, Christian Albrechts Universität, Kiel (Germany)

Frédéric Marion-Poll, AgroParisTech, Département Sciences de la Vie et Santé, Paris, France.

Violeta Velikova, Bulgarian Academy of Sciences, Institute of Plant Physiology, Sofia, Bulgaria.

Eric Wajnberg, Behavioral Ecology of Insect Parasitoids Ecology – Biometry Population Genetics Inra, France

Research Fields

Insect –plant mechanical and chemical interactions

Behaviour and chemical ecology of parasitic Hymenoptera and agricultural pests
Indirect plant defences, constitutive or induced by herbivores
Morpho-functional adaptations of insect
Behaviour and chemical ecology of Odonata
Insect electrophysiology
Biology and ecology of egg-parasitoid

Scientific production

Co-author of 115 scientific papers (100 on ISI journals), 2 book chapters and more than 100 abstracts on proceedings of national and international congresses.
One of the publications has been the object of an article on Science Now (Dragonflies Lack 'Smell Center,' but Can Still Smell, March 2014).

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