

CURRICULUM VITAE

MARCO FERRANTE

ADDRESS

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EDUCATION

2017 PhD in Agroecology, Aarhus University, Denmark.

2015 MSc in Agrobiology, Aarhus University, Denmark.

2012 BSc in Natural Sciences, University of Palermo, Italy.

PhD Thesis: *Using artificial sentinel prey to quantify predation intensity under field conditions*;
Supervisor: Gabor L. Lövei. Co-supervisor: Niels Holst.

LANGUAGES

English (proficient), Italian (mother tongue), Spanish (proficient), Portuguese (good).

POSTDOCTORAL EXPERIENCES

2019 - current Centre for Ecology, Evolution and Environmental Changes,
Azorean Biodiversity Group,
University of the Azores, Terceira Island, Portugal.

2018 - 2019 Jacob Blaustein Institutes for Desert Research,
Ben-Gurion University of the Negev, Israel.

2017 - 2018 Flakkebjerg Research Centre, Department of Agroecology,
Aarhus University, Denmark.

RESEARCH INTERESTS

Community ecology of terrestrial arthropods.

Predator behaviour and prey defences.

Sustainable agriculture.

Ecosystem services and disservices.

Urban ecology.

Desert ecology.

Impacts of human activities.

Ethics of conserving and valuing nature.

RESEARCH EXPERIENCE

Dec 2019 - current **Centre for Ecology, Evolution and Environmental Changes, Azorean Biodiversity Group, University of the Azores, Terceira Island, Portugal.**

I am developing standardised methods to quantify ecosystem services and disservices provided by arthropods using as a model the native laurisilva forests and several agroenvironments in Terceira Island, Azores.

Oct 2018 – Oct 2019 **Mitrani Department of Desert Ecology, Ben-Gurion University of the Negev, Israel.**

In a hyper-arid desert ecosystem (Evrana Nature Reserve, Arava Valley), I investigated the effects of recent (2014) and past (1975) oil spills on both the arthropod community and some of the ecosystem functions provided by arthropods.

Jul-Oct 2017 **Flakkebjerg Research Centre, Department of Agroecology, Aarhus University, Denmark.**

On request by the Danish Ministry of Food, Agriculture & Fisheries. Together with Prof. Gabor L. Lövei, we identified potential dangerous pests listed on the EU Plant Health Directive. We delivered two separate reports for Danish crops grown outdoor and in glasshouse.

2013-2017 During my Ph.D., I collaborated in the PURE, AMIGA, and IPM4Meligethes projects. The PURE project was a collaboration between several European research institutions and industries. Its aim was to evaluate the effectiveness of IPM practices to reduce dependence on pesticides. The AMIGA project (“Assessing and Monitoring the Impacts of Genetically Modified Plants on Agro-ecosystems”) aimed to develop standardised protocols and monitoring tools for post-market environmental monitoring of GM crops. The IPM4Meligethes project was a collaboration between Belgium, Denmark, Estonia, and Finland aimed to develop IPM strategies to control pollen beetles in oilseed rape crop.

TEACHING EXPERIENCE

2019, 2021 **Arthropod behavior and agroecology**

MSc & PhD course, Ben-Gurion University of the Negev, Israel.
Organised by M Segoli, Y Lubin & K Birkhofer.

2019 **Greek Summer School for Conservation Biology**

<https://gss.bat.uoi.gr/>
University of Ioannina, Greece.
Teacher, together with JM Halley, GL Lövei, AS Kallimanis & M Wiemers.

2013-2017 **Scientific writing and communication.**

PhD course, Aarhus University, Denmark.
Teaching assistant of Prof. GL Lövei.

2013-2017 **Agroecology and farm-scale management**

MSc course, Aarhus University, Denmark.
Teaching assistant of Prof. GL Lövei.

2016 **Statistics with R**

Estación Experimental Agropecuaria Manfredi, Córdoba, Argentina
Organiser and teacher.

PUBLICATION ACTIVITY SUMMARY

25 peer-reviewed publications, 4 comments/reports, 4 book reviews, 10 talks & posters at international workshops/conferences, 18 invited institute seminars.

Citations: **346**

Hirsch-index: **7** (both from Google Scholar, Mar 2021)

PEER-REVIEWED PUBLICATIONS

- 2021 Valdes-Correcher et al. Search for top-down and bottom-up drivers of latitudinal trends in insect herbivory in oak trees in Europe. *Global Ecology and Biogeography* 30, 651–665.
- 2021 Möller G, Keasar T, Shapira I, Möller D, **Ferrante M** & Segoli M. Effect of weed management on the parasitoid community in Mediterranean vineyards. *Biology* 10, 1.
- 2021 Lamelas-López L & **Ferrante M**. Using camera-trapping to assess grape consumption by vertebrate pests in a World Heritage vineyard region. *Journal of Pest Science* 94, 585–590.
- 2020 Imboma T, **Ferrante M**, Min-sheng Y, Shijun Y & Lövei GL. Diversity and nestedness of bird communities in tea (*Camellia sinensis*) growing regions in Fujian Province, south-eastern China. *Diversity* 12, 457.
- 2020 Möller DM*, **Ferrante M***, Möller GM, Rozenberg T & Segoli M. The impact of terrestrial oil pollution on parasitoid wasps associated with *Vachellia* trees in a desert ecosystem, Israel. *Environmental Entomology*, nvaal23. *equal joint authorship.
- 2020 **Ferrante M**, Möller D, Möller G, Lubin Y & Segoli M. Seed predation on oil-polluted and unpolluted *Vachellia* (*Acacia*) trees in a hyper-arid desert ecosystem. *Insects* 11, 665.
- 2020 Salman INA*, **Ferrante M***, Möller D, Gavish-Regev E & Lubin Y. Trunk refugia: a simple, inexpensive method for sampling tree trunk arthropods. *Journal of Insect Science* 20. *equal joint authorship.
- 2020 Lubin Y, **Ferrante M**, Musli I & Lövei GL. Diversity of ground spiders in desert habitats. *Journal of Arid Environments* 183, 104252.
- 2020 Magura T, **Ferrante M** & Lövei GL. Only habitat specialists become smaller with advancing urbanization. *Global Ecology and Biogeography* 29, 1978-1987.
- 2020 Lövei GL, Lang A, **Ferrante M** & Bacle V. Can the growing of transgenic maize threaten protected Lepidoptera in Europe? *Insect Science*.
- 2020 Castagneyrol B et al. Can school children support ecological research? Lessons from the ‘Oak bodyguard’ citizen science project. *Citizen Science: Theory and Practice* 5. <http://doi.org/10.5334/cstp.267>
- 2020 González E, Seidl M, Kadlec T, **Ferrante M**, Knapp M. Distribution of ecosystem services within oilseed rape fields: effects of field defects on pest and weed seed predation rates. *Agriculture, Ecosystems and Environment*. <https://doi.org/10.1016/j.agee.2020.106894>
- 2020 Kidane D, **Ferrante M**, Man XM, Liu WX, Wan FH & Yang NW. Cold storage effects on fitness of the whitefly parasitoids *Encarsia sophia* and *Eretmocerus hayati*. *Insects* 11, 428.
- 2020 Zhang, X, **Ferrante M**, Wan F, Yang N & Lövei GL. The parasitoid *Eretmocerus hayati* is compatible with barrier cropping to decrease whitefly (*Bemisia tabaci* MED) densities on cotton in China. *Insects* 11, 57.
- 2020 Zhang X, Lövei GL, **Ferrante M**, Yang N & Wan F. The potential of trap and barrier cropping to decrease densities of the whitefly *Bemisia tabaci* (Gennadius) on cotton in China. *Pest Management Science* 76, 366-374.
- 2019 **Ferrante M**, Lövei GL, Magagnoli S, Minarcikova L, Tomescu EL, et al. Predation pressure in maize across Europe and Argentina: an intercontinental comparison. *Insect Science* 26, 545-554.
- 2018 Kale M, Dudhe N, **Ferrante M**, Kasambe R, Trukhanova I, et al. The effect of urbanization on the functional and scale-sensitive diversity of bird assemblages in Central India. *Journal of Tropical Ecology* 34, 341-350.
- 2018 Kale M, **Ferrante M**, Dudhe N, Kasambe R, Trukhanova I, et al. Nestedness of bird assemblages along an urbanisation gradient in Central India. *Journal of Urban Ecology* 4, doi:10.1093/jue/juy017

- 2018 **Ferrante M**, Barone G, Kiss M, Bozóné-Borbáth E & Lövei GL. Ground-level predation on artificial caterpillars indicates no enemy-free time for lepidopteran larvae. *Community Ecology* 18, 280-286.
- 2017 **Ferrante M**, Barone G & Lövei GL. The carabid *Pterostichus melanarius* uses chemical cues for opportunistic predation and saprophagy but not for finding healthy prey. *BioControl* 62, 741-747.
- 2017 **Ferrante M**, González E & Lövei GL. Predators do not spill over from forest fragments to maize fields in a landscape mosaic in central Argentina. *Ecology & Evolution* 19, 7699-7707.
- 2017 Mansion-Vaquíe A, **Ferrante M**, Cook SM, Pell JK & Lövei GL. Manipulating field margins to increase predation intensity in fields of winter wheat (*Triticum aestivum*). *Journal of Applied Entomology* 141, 600-611.
- 2017 Lövei* GL & **Ferrante M***. A review of the sentinel prey method as a way of quantifying invertebrate predation under field conditions. *Insect Science* 24, 528-542. *equal joint authorship
- 2017 Begg GS, Cook SM, Dye R, **Ferrante M**, Franck P, et al. A functional overview of conservation biological control. *Crop Protection* 97, 145-158.
- 2014 **Ferrante M**, Lo Cacciato A & Lövei GL. Quantifying predation pressure along an urbanisation gradient in Denmark using artificial caterpillars. *European Journal of Entomology* 111, 649-654.

NON-REFEREED PUBLICATIONS

- 2017 T. Dalgaard T, Christen C, Lövei GL, **Ferrante M**, Bhaskar V et al. General soil-improving cropping systems. A review of soil-improving cropping systems (eds. Oenema O, Heinen M, Rietra R & Hessel R), pp.213-255. Wageningen Environmental Research.
- 2017 Lövei GL & **Ferrante M**. High attack rates on caterpillars also in cultivated fields - but influenced by human activities. Science e-letters.
<http://science.sciencemag.org/content/356/6339/742/tab-e-letters>
- 2017 Lövei GL & **Ferrante M**. Prioritising the quarantine pests listed on the EU Plant Health Directive DIR 2000/29 Appendices I & II, and the EPPO Alert list – considering threat to only glass-house-grown crops in Denmark. Part A Scoring procedure and tables. Part B Details of species considered high risk. Ad Hoc Report to the Danish Ministry of Food, Agriculture & Fisheries, NaturErhvervstyrelsen. 28+57 pp.
- 2017 Lövei GL & **Ferrante M**. Extended information for species constituting very high risk to Denmark from the quarantine pests listed on the EU Plant Health Directive DIR 2000/29 Appendices I/A2, II/A1, II/B, and the EPPO Alert List. Ad Hoc Report to the Danish Ministry of Food, Agriculture & Fisheries, NaturErhvervstyrelsen. 51 pp.

BOOK REVIEWS

- 2019 **Ferrante M**. Seeking Explanations for New Zealand's Biodiversity. *Conservation Biology* 33, 737-738.
- 2017 **Ferrante M**. Extinction, Mechanisms of Life, and Practice of Conservation on an Island. *Conservation Biology* 31, 1208-1209.
- 2016 **Ferrante M**. Saving the Earth as a Career: Advice on Becoming a Conservation Professional (II edition). *It's a long way to the top (if you want to be a conservation biologist). Blog of the Society for Conservation Biology - Europe Section.*
<http://euroconbio.blogspot.com/2016/06/its-long-way-to-top-if-you-want-to-be.html>).
- 2015 **Ferrante M**. Bugs Rule! An introduction to the world of insects. *Bulletin of Insectology* 68, 146.

AWARDS AND DISTINCTIONS

2020 The article GL Lövei & M Ferrante (2017). *A review of the sentinel prey method as a way of quantifying invertebrate predation under field conditions* published in *Insect Science*, Volume 24, Issue 4, Pages 528–542 was awarded as the Most Cited Paper of Insect Science in 2019.

2019 Unleash Innovation Lab. Travel and accommodation grant. Shenzhen, China, Nov 6-13.

2018 EFSA - European Food Safety Authority. Travel and accommodation grant "Early Career Research Initiative".

REVIEWER FOR:

Agriculture, Agriculture Ecosystems and Environment, Animal Behaviour, Annals of the Brazilian Academy of Sciences, Austral Ecology, BioControl, Bulletin of Insectology, Community Ecology, Conservation Biology, Diversity, Ecological Entomology, Entomologia Experimentalis et Applicata, European Journal of Entomology, Insects, Journal of Applied Ecology, Journal of Applied Entomology, Journal of Insect Science, Journal of Integrative Agriculture, Journal of Tropical Ecology, Land, Landscape Ecology, PeerJ, Scientific Reports, Sustainability.

Member of the reviewer board for *Insects* (2020 - current)

External reviewer for *BiodivERsA Joint Call "Biodiversity and its influence on animal, human and plant health"*. (2018-2019)

MEMBERSHIP IN LEARNED SOCIETIES

2019 - current Israeli Chapter of the Society for Conservation Biology

2015 - current British Ecological Society

2013 - current Sicilian Society of Natural Sciences

2013 - 2016 Italian Entomological Society

REFERENCES

These persons are familiar with my professional qualifications and my character:

Gabor L Lövei Senior Scientist & Adjunct Professor
Department of Agroecology, Faculty of Science and Technology
Aarhus University, Denmark.
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Yael Lubin Professor Emeritus
Mitrani Department of Desert Ecology,
Ben-Gurion University of the Negev, Israel.
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Mitrani Department of Desert Ecology,
Ben-Gurion University of the Negev, Israel.
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Paulo AV Borges Auxiliary Professor
cE3c – Centre for Ecology, Evolution and Environmental Changes,
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Angra do Heroísmo, March 17, 2021