

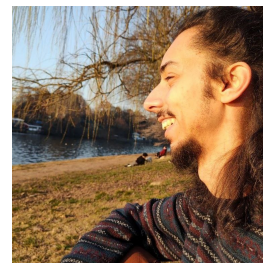
Matteo Angeli

Curriculum Vitae

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Education

MSC IN ENVIRONMENTAL BIOLOGY

2020 - 2023

University of Turin, Italy | Credits : 120 ECTS | Final grade : 104/110

Main Courses: Animal Ecology, General Entomology, Invertebrates Conservation, Vertebrates Conservation, Application of GIS, Statistical Analysis (R), Zoological Sampling Methods, Animal and Plant Ecophysiology

Important Essays:

- *“Morimus funereus, a comprehensive report”*
- *“Five years monitoring project of European Golden Jackal (Canis aureus moreoticus) in the Piedmontese Park of Po river”*

Master’s Thesis

Title: *“Urban Permeability: a Multidisciplinary Approach to Study Turin Butterfly Mobility”*

Supervisor: Assoc. Prof. Simona Bonelli

Co-supervisors: Full Prof. Marco Maggiora, Assoc. Prof. Marco Destefanis, Irene Piccini, PhD

BSc IN BIOLOGY

2016 - 2022

University of Turin, Italy | Credits : 180 ECTS | Final Grade : 87/110

Main Courses: Zoology, Botany, Ecology, Animal and Plant Physiology, Population and Evolution Genetic, Biochemistry, Genetic and Molecular Biology

Bachelor’s Thesis (non-research dissertation)

Title: *“Management of linear infrastructures to promote butterfly conservation”*

Supervisor: Assoc. Prof. Simona Bonelli

Co-supervisor: Irene Piccini, PhD

Experience

Research

FELLOWSHIP RESEARCHER - FOREST ENTOMOLOGY

March 2024 - today

Dept. of Agricultural, Forest and Food Sciences (DISAFA) - University of Turin, Italy

Research Group: *Forest Entomology and Zoology* (Coordinator: Assoc. Prof. Chiara Ferracini)

Main Objectives:

- Field inspection, identification and sampling of phytophagous insects in chestnut orchards.
- Soil sample collection for biodiversity analysis to sustainably manage chestnut pests (*Curculio elephas* and *Cydia* spp.).
- Ambrosia beetles monitoring in chestnut orchards (subfamily Scolytinae).
- Evaluation of biological control efficiency against the Asian chestnut gall wasp (*Dryocosmus kuriphilus*).
- Analysis of *D. kuriphilus*' response to olfactory cues using the olfactometer.
- Breeding of insects with teaching purposes: *Extatosoma tiaratum*, *Medauroidea extradentata*, *Blaptica dubia* and *Gromphadorhina portentosa*
- Maintenance of permanent mass rearing in controlled conditions of *Cydalima perspectalis*
- Multivariate data analysis

UNIVERSITY TRAINEESHIP (MSc)

Nov. 2020 - Nov. 2023

Dept. of Life Science and System Biology (DBIOS) - University of Turin, Italy

Research Group: *ZooLab* (Coordinator: Assoc. Professor Simona Bonelli)

Main Objectives:

- Research project on butterfly mobility (gen. *Pieris*) in urban environment (Turin city), through field sampling and data analysis
- Collaboration with Physics Department (University of Turin) to model butterfly mobility via Multi-Agent System
- Master's thesis "Urban Permeability: a Multidisciplinary Approach to Study Turin Butterfly Mobility" [English]

ERASMUS TRAINEESHIP

April 2022 - Sept. 2022

Swedish University of Agricultural Sciences (SLU) - Uppsala, Sweden

Research Group: *Conservation Biology Group* with Prof. Erik Öckinger

Main Objectives:

- Research on butterfly (fam. Satyrinae) behaviour in a Road Ecology context
- Project planning, field sampling and data analysis performed autonomously, under the supervision of Assoc. Prof. Erik Öckinger

UNIVERSITY TRAINEESHIP (BSc)

May 2017 - Nov. 2020

Dept. of Life Science and System Biology (DBIOS) - University of Turin, Italy

Research Group: *ZooLab* (Coordinator: Assoc. Professor Simona Bonelli)

Main Objectives:

- Field work: butterfly monitoring (manual netting, Mark Release Recapture, Pollard's Transect, counting squares of eggs and larvae)
- Laboratory assistant (class of Invertebrate Zoology) - 1 semester
- Main field sampling executed on *Zerynthia polyxena* project, with Irene Piccini as project coordinator - Susa Valley (Turin, Italy)
- Non-research dissertation titled "Management of linear infrastructures to promote butterfly conservation" [Italian]

Teaching

TEACHING TUTOR - MINISTERIAL HIGH SCHOOL PROJECT

May 2024 - Nov. 2024

Dept. of Life Science and System Biology (DBIOS) - University of Turin, Italy

Research Group: *ZooLab* (Coordinator: Assoc. Professor Simona Bonelli)

Main Tasks:

- Organized school trips under the ministerial project "*Piano Lauree Scientifiche - Biodiversità ed Ecosistemi*", aiming to engage new high school graduates in biology.
- Delivered theoretical lessons to high school classes on insect biodiversity and the role of a biologist in this field.
- Guided students in La Mandria Park to test classical fieldwork methods (e.g., Pollard's linear transect, Mark Release and Recapture) to collect quantitative and qualitative data on butterfly communities.
- Taught basic statistical analysis (e.g., biodiversity indices), which students applied to their fieldwork data.

TEACHING TUTOR IN TURIN'S PENITENTIARY

March 2024 - June 2024

Dept. of Life Science and System Biology - University of Turin, Italy

Main Tasks:

- Tutored the Human Anatomy course for inmate students pursuing a *Bachelor's degree in sports science* in a special block of *Turin's penitentiary*.
- Prepared a summarized version of the course, considering the limited time and resources available.
- Conducted lessons autonomously, covering all key points of the course (officially held by Prof. Luca Pradotto), using slides and administering a mid-term exam (both prepared independently).

Third Mission

OPEN CAMPUS DISAFA

Oct. 2024

Lesson with elementary school students about entomology at DISAFA, University of Turin.

UNIVERSITY'S DEPARTMENTS GUIDE

Oct. 2023

Presentation and accompaniment to the visitor of Fondo Ambiente Italiano through a visit within the Department of Life Science and System Biology (University of Turin) - presentation and historical comparison of past and present research studies in zoology.

HIGH SCHOOL ENVIRONMENTAL GUIDE

May 2023 - May 2024

Multidisciplinary school trips of three days in Cinque Terre, with Highschool classes

EUROPEAN RESEARCHER NIGHT

Sept. 2019 - Sept. 2022

Dept. of Life Science and System Biology, University of Turin, Italy

Research Group: *ZooLab* (Coordinator: Assoc. Professor Simona Bonelli)

- Participation of European Researcher Night (2019 and 2022 edition)
- Management of games and other informative materials, focusing on increasing the public engagement on the value of pollinators biodiversity and the importance of urban area for this insects community

INTERNATIONAL NIGH OF GEOGRAPHY

May 2022

Speech at Geonight about urban ecosystem, with focus on urban ecology and pollinator roles on food system in Urban Social Gardens (under ProGIreg European project and ZooLab, University of Turin)

BIOBLITZ ZERYNTHIA POLYXENA

August 2018

Bioblitz about the project "*Zerynthia polyxena*", where I supported the research group ZooLab (University of Turin) during different lab and field activity to present the research to Susa Valley's citizens.

Publication List

- Busato, E., Gallizia, S., **Angeli, M.**, D'Amico, M. E., Ferracini, C. (2024). "Diversity in the Herpetobiont Ground Beetle Assemblage (Coleoptera, Carabidae) in the Val Grande National Park". *Forests*, 15(10):1779.
- **Angeli, M.**, Calabrese, S., Arduino, A., Bonelli, S., Bortolasi, M., Destefanis, M., Maggiora, Piccini, I. (2022). Multi Agent System to design permeable cities for butterflies. In *OpenLivingLab Days Conference 2022* (p. 216).

National and International Conferences

THIRD NATIONAL MEETING OF ASSOCIAZIONE LEPIDOTTEROLOGICA ITALIANA

1-3 July 2023

Presentation of Master's Degree project at ALI - Associazione Lepidotterologica Italiana

OPENLIVINGLAB DAYS CONFERENCE 2022 "THE CITY AS A LAB, BUT NOW FOR REAL!"

21 - 23 Sept. 2023

Speech about my MSc thesis project, as research in progress, entitled "**Multi Agent System to design permeable cities for butterflies**"

Participation in Research Groups

- Member of the *Forest Entomology and Zoology* research group (Coordinator: Assoc. Prof. Chiara Ferracini)
- Guest at *Conservation Biology Unit* of Swedish University of Agricultural Sciences, under the supervision of Assoc.Prof. Erik Öckinger - Uppsala, Sweden Ferracini Ockinger Bonelli
- Trainee and Thesis student of the *ZooLab* research group (Coordinator: Assoc. Prof. Simona Bonelli)

Project Participation

- *REACTION*: Project forming part of the PSR 2014-2020 research program of the Piedmont Region - Measure 16 - Operation 16.2.1, which aims at the sustainable management of residual biomass from the Chestnut supply chain to reduce emissions and promote the transition to competitive, circular and resilient forestry systems.
- *CoFarm4Cities*: The project, which is part of the Interreg CENTRAL EUROPE 2014/2020, aims to preserve and increase urban green areas by developing climate-friendly solutions to increase urban resilience following climate change. The project is therefore to design and test a replicable model of urban agriculture in Cascina Falchera (TO).

Language Skills

Listening	Reading	Writing	Spoken production	Spoken interaction
C1	C1	C1	C1	C1

Digital Competencies

R, R Studio, R Markdown	GIS (QGIS)	Git & GitHub	LaTeX & Overleaf
Python (basic)	Linux OS	Windows OS	Microsoft Office