

# Andrea Corradini

*PhD candidate*

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<sup>1</sup> University of Trento, Department of Civil, Environmental and Mechanical Engineering, Italy

<sup>2</sup> Research and Innovation Centre, Fondazione Edmund Mach, Italy

<sup>3</sup> Stelvio National Park, Italy

## EDUCATION

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### University of Trento / PhD candidate

2017 - PRESENT, Trento, Italy

Project Title: "Ecological connectivity in the Alpine anthropogenic matrix: natural reserves and corridors for the conservation of brown bear (*Ursus arctos*) in the Alps (ABC - AlpBearConnect)"

### University of Florence / M.Sc. Wildlife sciences & management

2012-2016, Florence, Italy

Thesis: "Wolf (*Canis lupus*) in Romania: winter feeding ecology and spatial interaction with lynx (*Lynx lynx*)". Highest honors (110/110 *cum laude*).

### Association for Conservation of Biological Diversity / Internship

2014-2015, Focșani, Romania

*Erasmus scholarship - Traineeship mobility*

EU-funded Project: WOLFLIFE (LIFE13 NAT/RO/000205). Investigation of the wolf's feeding ecology and the spatial overlap with the Eurasian lynx (M.Sc. thesis project). Estimation of population parameters through a non-invasive integrated sampling design (Research Assistant).

### Swedish University of Agricultural Sciences / Study exchange

2013, Umeå, Sweden

*Erasmus scholarship - Study mobility*

Master's program in "Management of Fish and Wildlife Populations"

### University of Florence / B.S. Wildlife sciences

2009-2012, Florence, Italy

Thesis: "Analysis of environmental vocation for lynx (*Lynx lynx*) in Northern Apennines" (Language: Italian). Highest honors (110/110 *cum laude*). Student representative during 2010/2012.

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## WORK EXPERIENCE & TRAINING

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### Association for Conservation of Biological Diversity / Field Technician & Graduate Research Assistant

2015-2017, Focșani, Romania

Survey on wolf distribution and abundance in the Eastern Romanian Carpathians, using a non-invasive, integrated sampling design; Stakeholder outreach and collaboration for involvement in project activities; Assessment of wild ungulate abundance; Supervision and training of field workers.

*Management implication: Methodology developed within the EU-funded WOLFLIFE project accepted by the Romanian Ministry of the Environment.*

### Research Center in Biodiversity & Genetic Resources / Research Assistant

2016, Portugal

10-days of professional training on wolf trapping: assisted in activating and managing traps, wolf handling, and in the collection of biometric information.

### University of Perugia / Volunteer Field Technician

2012-2014, Casentino National park, Italy

Project Title: "Study on mesocarnivores species of conservation interest in the Casentino National park". Execution of transects; collection of scats and signs of presence; data storage in GIS environment.

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## PUBLICATIONS

**Corradini, A.** et al (2020). "Effects of cumulated outdoor activity on wildlife habitat use". *In review in Biological Conservation*.

Gastineau, A., **Corradini, A.** et al (2020). "Depredation risk of the brown bear, *Ursus arctos*, in Western Europe: a transboundary comparison". *In preparation*.

**Corradini, A.** et al (2020). "Spatio-temporal brown bear (*Ursus arctos*) niche shrinking due to anthropogenic disturbance". *In preparation*.

O'Mahony, K., **Corradini, A.**, Gazzola, A. (2017). "Lupine becomings- tracking and assembling wolves through multi-sensory fieldwork". *Society and Animals*, 26(2), 107-129. DOI 10.1163/15685306-12341501

**Corradini, A.** (2016). "Wolf (*Canis lupus*) in Romania: winter feeding ecology and spatial interaction with lynx (*Lynx lynx*)". M.Sc. thesis, University of Florence, Italy. DOI 10.5281/zenodo.3689284

## SELECTED CONFERENCE PRESENTATIONS

**Corradini, A.** et al (2019). "Effect of human-derived risk in the individual selection of resting sites by brown bear (*Ursus arctos*) in the Central Alps". Poster at the Gordon Research Seminar & Conference on Movement Ecology of Animals, Italy.

**Corradini, A.** et al (2018). "All the faces of the Alpine bear: integrating multi-source data in an individual-based spatial relational database for the brown bear (*Ursus arctos*) in the Alps". Poster at the 26th IBA Conference, Slovenia.

**Corradini, A.** et al (2017). "Assessing habitat selection of wolf (*Canis lupus*) and lynx (*Lynx lynx*) using the Ecological-Niche Factor Analysis: an application in the Eastern Carpathians, Romania". Presentation at X Baltic Theriological Conference, Estonia.

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## SCHOLARSHIPS & GRANTS

Doctoral scholarship	See affiliations <sup>1, 2, 3</sup>	75,000 €
IRSAE travel grants	Inland Norway University	2,650 €
Erasmus+ Traineeship mobility	University of Florence	4,500 €
Erasmus Study mobility	University of Florence	1,250 €
Scholarship and lodging	University of Florence	15,000 €

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## SCIENTIFIC MEMBERSHIPS

- IBA - International Association for Bear Research and Management (USA)
  - EUROLYNX - Collaborative science for movement ecology of Eurasian lynx (EU)
  - IRSAE - International Research School in Applied Ecology (Norway)
  - International Bio-logging Society (UK)
  - NGAT- Next Generation Animal Tracking (Belgium)
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## REVIEWER

PLOS One

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## TEACHING EXPERIENCE

2020 - **Gabriele Retez** - University of Bucharest, Romania - B.Sc. thesis co-supervisor: "Habitat selection by large mammals in Ceahlau National Park, Romania."

2019 - **Daniele Falcinelli** - Sapienza University of Rome, Italy - M.Sc. thesis joint co-advisor: "Effect of human-derived risk and individual traits in the choice of resting sites: the case of the reintroduced brown bears in the Italian Alps".

2019 - **Matthias Randles** - University of Amsterdam, Netherlands - M.Sc. thesis supervisor: "Assessing the effects of human landscape permeability on the ecological connectivity of the brown bear population in Trentino. Mapping a landscape of disturbance".

2018 - **Marilou Prudhomme** - University Toulouse III, France - M.Sc. thesis co-supervisor: "Brown Bear Conservation And Management: Ecological And Social Aspects".

2017 - "Wildlife management and conservation. Intensive course: theory and practice". Course organizer and teacher, Rifugio Passo Xomo, Italy. Participants: 15 undergrad university students.

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## MEDIA & PUBLIC ENGAGEMENT

2020 - Contribution to the Large Carnivores Report, Trento, Italy

2019 - Workshop 'La Ricerca nel Parco Nazionale dello Stelvio'

2018 - 'Lupii din România'. National Geographic Romania's special issue

2018 - 'Lupii'. National Geographic Romania's documentary

2018 - European Researchers' Night. EU-wide public outreach event, Trento, Italy

2015-2017 - Project reporting to stakeholder in the context of the LIFE project

2012-2015 - Various presentations on large carnivores to public for a non-profit organization ("Amici del Parco Nazionale delle Foreste Casentinesi")

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## LANGUAGE

- Italian                      Mother tongue
- English                     Proficient (IELTS Certificate 8.0/9.0)
- Romanian                  Basic user

## RESEARCH SKILLS

### TECHNIQUES

- Extensive experience in direct and indirect sampling of mammals and avifauna (direct behavioural observation, camera trapping, radio-tracking, snow tracking, wolf howling, block counts, drive census, pellet-group count, cue-count distance sampling, and bird ringing)
- Experience in large mammals trapping, handling, and biometric measurement
- Diet analysis

### JOB-RELATED SKILLS

- Capable leader, coordinator, and motivator of working groups in the field
- Experienced off-road, stick shift driver
- Experienced in orienteering both day and night
- Practiced and independent researcher in the field for long time periods, both in adverse conditions and different biogeographical regions - Alpine, Arctic, Boreal, Continental, and Mediterranean
- Comfortable presenting research to the public; have given several presentations on large carnivores since 2012 to varying audiences

### DIGITAL & ANALYTICAL

	Softwares	Skills
GIS	Quantum GIS, GRASS, GDAL	Advanced spatial analysis; Creation of maps; Digital Image Processing; Field spatial data entry & management; Photo-interpretation.
Database	PgAdmin, PostgreSQL, PostGIS	Database modelling, development and management; Advanced queries; Co-curator of individual-based relational spatial database for the brown bear.
Analysis	R, NetLogo	Data tidying; Interfacing of R environment with GIS environment and PostgreSQL; Statistical analysis (Multivariate analysis and data exploration, linear regression - glm, glmm, including Resource Selection Analysis. Model selection and multimodel inference). Agent-based modelling.
Other	Sublime Text, Microsoft Office, LibreOffice	Daily use of text editor for shell coding; Extensive experience for managing, analysing and presenting data with proprietary and open-source software programs;