# MATTEO FALCO

## EDUCATION

12.2012 – 03.2015 **MSc with honours in Ecobiology at Sapienza University of Rome**

Thesis: "Habitat selection of rendez-vous sites by wolves: multi-scale approach in the Pollino National Park"
Supervisors: Prof. Paolo CIUCCI (Sapienza), Dr. Luigi MAIORANO (Sapienza).

2007 – 2012 **BSc in Natural Sciences at Sapienza University of Rome**

Thesis: "Validity of *Cervus simplicidens* in Ingarano and Avetrana finds (Puglia)"
Supervisors: Prof. Carmelo PETRONIO (Sapienza), Dr. Luca PANDOLFI (Sapienza)

2002 – 2007 **High school diploma at Liceo Scientifico Talete, Rome**

Mark: 82/100

## RESEARCH AND WORK EXPERIENCE

05.2012 **Fieldwork volunteer for findings mammals quaternary fossil in Puglia (Italy).**
Project manager: Carmelo Petronio (Sapienza)

- Identification of stratification of sedimentary rocks
- Identification of fossil mammal fauna
- Fossil extraction techniques

05.2015 – 02.2016 **Scientific technical consultant for "*Italian Zoological Union onlus*" (UZI), partnership with "*Ministero dell'Ambiente e della Tutela del Territorio e del Mare*" (MATTM)**
Project manager: Paolo CIUCCI (Sapienza), Elvira DE MATTHAEIS (UZI president)

- Development of habitat suitability and structural connectivity models of marsican brown bears (*Ursus arctos marsicanus*) in the central Apennine (Italy).
- Update the presence and potential distribution cartography of the marsican brown bear (*Ursus arctos marsicanus*).

## TRAINING AND COURSES

2011 **"Birds identification"**
Training course held by Carlo CATONI (Ornis italica) and Luca DEMARTINI at LIPU center, Ostia (Italy)

Main topics covered:

- Focus on identification of acquatic birds (waders, herons and ducks), raptors and passerines.

2013 **"Animal ecology and conservation"**
Academic course held by Prof. Luigi BOITANI (Sapienza)
Main topics covered:

- Distance sampling density estimates
- Capture methods for mammals
- Ecosystem composition analysis
- Ungulates age estimates

2016 **"Introduction to Linear Mixed Effects Models, GLMM and MCMC with R"**
Statistic's course held by Dr. Alain Zuur and Dr. Elena Ieno (Highland Statistics ltd.), Lisbon (Portugal).
Main topics covered:

- Mixed effects models (LMM, GLMM)
- Frequentist and Bayesian statistic approaches
- Programming with JAGS in R

## PROFESSIONAL SKILLS

FIELDWORK TECHNIQUES IN ANIMAL ECOLOGY

- Camera trapping
- Signs of presence detection and identification
- Traps setting-up
- Individual identification (ID, sex, class, age)

STATISTICS

- Ecological modelling (LMs, GLMs, GLMMs, MaxEnt, BIOMOD, ENFA, MSPA, Circuit Scape)
- GIS applications

LANGUAGE SKILLS

- Italian (native tongue)
- English (colloquial)
- French (colloquial)

COMPUTER SKILLS

- Operating systems: Windows
- Software: R, ArcGis, Office package, OpenOffice, Google Earth, Circuit Scape, GUIDOS
- Programming languages: R, python, JAGS

LICENSES

- Full driving license
- ECDL

GENERAL SKILLS

- Capable to conduct a scientific research project from the starting proposal up to the final report
- Able to work independently as well as in a multi-cultural team
- Experience in oral communication of science, ability in public speaking
- Capability of working and living in remote areas often under difficult conditions with physical fieldwork

## CONFERENCES ATTENDED

11.2014 **"I grandi mammiferi nell'Appennino centrale" – convegno nazionale "Paolo Barrasso"**
Caramanico Terme, Majella National Park (Italy)

02.2016 **"Specie aliene in Italia: emergenze e ri-emergenze per ambiente e salute"**, held by Federazione Nazionale delle Società Scientifiche Italiane (FISNA), Sapienza University of Rome (Italy)

## PUBLICATIONS

**Ciucci P.**, Maiorano, L., Chiaverini, L., Falco, M. (2015) *Aggiornamento della cartografia di riferimento del PATOM su presenza e distribuzione potenziale dell'orso bruno marsicano nell'Appennino centrale*; pagg. 5 - 14, in *Azioni di supporto per la conservazione di specie faunistiche a rischio* tra MATTM e UZI – II relazione delle attività.

**Falco, M.**, Ciucci, P., Maiorano, L., (2016) Conditioning availability in resource selection functions: territoriality matters. *Abstract,* X Congresso Italiano Di Teriologia - Hystrix, It. J. Mamm.