

CURRICULUM VITAE



PERSONAL DETAILS

Name and Surname MIRKO DI FEBBRARO

QUALIFICATIONS

Feb 2018

Name and type of organization providing education and training

PostDoc Position

"University of Molise", Isernia – Department of Biosciences and Territory

Feb 2017

Name and type of organization providing education and training

PostDoc Position

"University of Molise", Isernia – Department of Biosciences and Territory

Mar 2015

Name and type of organization providing education and training

Ph.D. in "Management and Conservation Issues in Changing Landscapes". Thesis: "Human-induced effects on the distribution of species and communities of Vertebrates at different spatial scales". Thesis supervisor: Prof. Anna Loy.

"University of Molise", Isernia – Department of Biosciences and Territory

Dec 2010

Name and type of organization providing education and training

Post lauream Master in "Conservation of Animal Biodiversity", directed by Luigi Boitani. Thesis: "The arrival of the grey squirrel (*Sciurus carolinensis*) in Lazio: a case – study for an Early Warning system".

"La Sapienza", University of Rome

Level

110/110 cum laude

Oct 2009

Name and type of organization providing education and training

Master's Degree in Natural Sciences. Thesis: "Experimental research on the behavioural ecology of *Talpa* spp. in mountain habitats". Thesis supervisor: Prof. Gerardo Gustato. Thesis co - supervisor: Prof. Anna Loy.

"Federico II", University of Naples

Level

110/110 cum laude

PROFESSIONAL EXPERIENCE

Sep 2017

Name and type of organization providing education and training

Employment as GIS Expert within the "Alien Species National Database" agreement between Italian National Institute for Environmental Protection and Research (ISPRA) and "Associazione Teriologica Italiana" (ATIt). Starting date: 1st of February 2018.

"Associazione Teriologica Italiana" (ATIt), Onlus.

TEACHING AND STUDENT SUPERVISION	
Nov 2017	Teacher for the "Introduction to the R software" class, PhD level, 16h. University of Molise, Italy.
Name and type of organization providing education and training	
Mar 2017	Teacher for the "Introduction to the R software" class, PhD level, 16h. University of Molise, Italy.
Name and type of organization providing education and training	
Jun 2016	Teaching assistant in Animal Ecology, Zoology and Comparative Anatomy, >100 h University of Molise, Italy.
Name and type of organization providing education and training	
Jun 2014	Adjunct teacher for the "Biological sciences for landscape and forest management" class, master level, 48h University of Toscana, Italy – University of Molise, Italy.
Name and type of organization providing education and training	
IMPROVING COURSES	
Dec 2014	Teaching assistant in Animal Ecology, Zoology and Comparative Anatomy, >100 h University of Molise, Italy.
Name and type of organization providing education and training	
Feb 2014	Research visiting at Department of Ecology and Evolution (DEE), University of Lausanne, 3rd May - 5th December University of Lausanne, Switzerland.
Name and type of organization providing education and training	
Oct 2012	Spring school of "Introduction of Linear Mixed Effects Models, GLMM and MCMC with R", 10th – 14th Feb Highland Statistics Ltd. - University of Lisbon, Portugal.
Name and type of organization providing education and training	
Mar 2012	Research visiting at Research Center in Biodiversity and Genetic Resources (CIBIO), 22th - 30th Oct Research Center in Biodiversity and Genetic Resources (CIBIO), Porto, Portugal.
Name and type of organization providing education and training	
Sep 2011	Spring school of "Habitat distribution models and their applications in ecology, evolutionary ecology and conservation", 12th – 16th Mar University of Grenoble, France.
Name and type of organization providing education and training	
Jun 2011	Summer school of "Advances in Species distribution modeling in ecological studies and conservation", 11th – 18th Sep University of Pavia, Italy; Alpine Wildlife Research Centre of the Gran Paradiso National Park
	Course of "Analysis of ecological data in R program", 6th – 8th June

Name and type of organization providing education and training May 2011 Name and type of organization providing education and training	"Tor Vergata", University of Rome, Italy. Course of "Numerical methods for periodical data analysis", 12th – 13th and 26th – 27th May University of Molise, Isernia, Italy.
Apr 2011 Name and type of organization providing education and training	Course of "Geospatial Analysis", 19th – 21th and 27th – 29th April "Tor Vergata", University of Rome, Italy.

CONFERENCE COMMUNICATIONS		
	Aug 2013	11th International Mammalogical Congress, 11th – 16th August, Belfast (Northern Ireland). Di Febbraro M. , Frate L., Roscioni F. & Loy A. Impact of three different forest management practices on <i>Nyctalus leisleri</i> 's distribution. (Oral communication).
Name and type of organization providing education and training		International federation of Mammalogists – The Mammal Society – Queen's University
	Jul 2011	6th European Congress of Mammalogy, 19th – 23th July, Paris (France). Di Febbraro M. , Bertolino S., Paoloni D., Maiorano L. & Genovesi P. The potential spread of the grey squirrel (<i>Sciurus carolinensis</i>) in central Italy. A GIS – cost distance analysis. (Poster communication).
Name and type of organization providing education and training		Université P. et M. Curie – Muséum national d'Histoire naturelle
	Dec 2010	2nd International Congress: "Problematic Wildlife – Conservation and Management", 3th – 5th February, Genazzano (RM), Italy. Di Febbraro M. , Bertolino S., Girardello M., Lurz P. W. W., Maiorano L. & Genovesi, P. Ecological modelling approaches to the spread of the grey squirrel (<i>Sciurus carolinensis</i>) in Umbria: a case study for a risk assessment in Italy and Europe. (Poster communication)
Name and type of organization providing education and training		University of Tuscia, Viterbo, Italy; VentiVenti cultural association
PERSONAL SKILLS AND COMPETENCES		
Mother tongue	ITALIAN	
Other language	ENGLISH	
Reading	VERY GOOD	Speaking VERY GOOD
		Writing VERY GOOD
FRENCH		
Reading	BASIC	Speaking BASIC
		Writing BASIC
LANGUAGE COURSES		
31 Lug – 18 Aug 2006	Upper Intermediate English course	
Name and type of organization providing education and training	London Skills Institute, London	
INFORMATIC SKILLS		
Operating Systems:	Windows 95-98 2000 NT, XP, Vista, Seven; Mac OSx (excellent).	
Productivity Software:	Office Suite (very good); OpenOffice (very good); Adobe Acrobat (very good); Adobe Premier (basic); Adobe Photoshop (basic).	
GIS Software:	ArcGis suite (excellent); Q-GIS (excellent); SpatialEcology (very good); Idrisi Andes (good); DIVA Gis (good); GRASS (basic); Global Mapper (good); OziExplorer (good); Google Earth (very good).	
Statistical/Modelling Software:	R base (excellent), R packages: raster (excellent), sp (excellent), maptools (excellent), rgeos (excellent), dismo (excellent), biomod2 (excellent); NetLogo (good); STATISTICA (good); Repas (basic); SPSS (basic); Presence (good); GENPres (good); Monitor (good); RAMAS (basic).	
Internet:	Very good skill in searching information/resources on web (Internet Explorer, Mozilla FireFox, Google Chrome).	

AWARDS AND GRANTS**Jul 2011**

Best student poster presentation award. 6th European Congress of Mammology, 19th – 23th July, Paris (France). **Di Febbraro M.**, Bertolino S., Paoloni D., Maiorano L. & Genovesi P. The potential spread of the grey squirrel (*Sciurus carolinensis*) in central Italy. A GIS – cost distance analysis.

RESEARCH AND FIELD WORK EXPERIENCE**Aug 2010**

Name and address of organization

Field work for the project "Behavioural Ecology of underground mammals in the Abruzzo, Lazio and Molise National Park"

"University of Molise", Isernia. Dept S.T.A.T. I-86090 Pesche, Italy

May 2009

Five weeks trapping session of Small Mammals in Capracotta (Italy)

Oct 2008

Two weeks trapping session of Small Mammals in Capracotta (Italy)

PUBLICATIONS

2018

Melchionna M., **Di Febbraro M.**, Carotenuto F., Rook L., Mondanaro A., Castiglione S., Serio C., Vero V.A., Tesone G., Piccolo M., Diniz-Filho J.A.F., & Raia P. (2018) Fragmentation of Neanderthals' pre-extinction distribution by climate change. *Palaeogeography, Palaeoclimatology, Palaeoecology*, online ver, 1–9.

2017

Castiglione S., Mondanaro A., Melchionna M., Serio C., **Di Febbraro M.**, Carotenuto F., & Raia P. (2017a) Diversification Rates and the Evolution of Species Range Size Frequency Distribution. *Frontiers in Ecology and Evolution*, 5, 1–10.

Castiglione S., Tesone G., Piccolo M., Melchionna M., Mondanaro A., Serio C., **Di Febbraro M.**, & Raia P. (2017b) A new method for testing evolutionary rate variation and shifts in phenotypic evolution. *Methods in Ecology and Evolution*, 2018, 1–10.

Di Febbraro M., Carotenuto F., Castiglione S., Russo D., Loy A., Maiorano L., & Raia P. (2017) Does the jack of all trades fare best? Survival and niche width in Late Pleistocene megafauna. *Journal of Biogeography*, 44, 2828–2838.

Loy A., Cassini M.H., Colangelo P., & **Di Febbraro M.** (2017) Distribution, spatial interaction and niche analysis in three species of European moles (genus *Talpa*, Soricomorpha: Mammalia) in Italy. *Biological Journal of the Linnean Society*, 122, 872–882.

Mondanaro A., Castiglione S., Melchionna M., **Di Febbraro M.**, Vitagliano G., Serio C., Vero V.A., Carotenuto F., & Raia P. (2017) Living with the elephant in the room: Top-down control in Eurasian large mammal diversity over the last 22 million years. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 485, 956–962.

Sallustio L., Toni A. De, Strollo A., **Di Febbraro M.**, Gissi E., Vizzarri M., Casella L., Geneletti D., Munafò M., & Marchetti M. (2017) Assessing habitat quality in relation to the spatial distribution of protected areas in Italy. *Journal of Environmental Management*, 201, 129–137.

Smeraldo S., **Di Febbraro M.**, Ćirović D., Bosso L., Trbojević I., & Russo D. (2017) Species distribution models as a tool to predict range expansion after reintroduction: A case study on Eurasian beavers (*Castor fiber*). *Journal for Nature Conservation*, 37, 12–20.

2016

Bosso L., **Di Febbraro M.**, Cristinzio G., Zoina A., & Russo D. (2016a) Shedding light on the effects of climate change on the potential distribution of *Xylella fastidiosa* in the Mediterranean basin. *Biological Invasions*, 18, 1759–1768.

Bosso L., Russo D., **Di Febbraro M.**, Cristinzio G., & Zoina A. (2016b) Potential distribution of *Xylella fastidiosa* in Italy: a maximum entropy model. *Phytopathologia Mediterranea*, 55, 62–72.

Carotenuto F., **Di Febbraro M.**, Melchionna M., Castiglione S., Saggesi F., Serio C., Mondanaro A., Passaro F., Loy A., & Raia P. (2016) The influence of climate on species distribution over time and space during the late Quaternary. *Quaternary Science Reviews*, 149, 188–199.

De Castro O., Di Maio A., **Di Febbraro M.**, Imparato G., Innangi M., Véla E., Menale B., Vela E., & Menale B. (2016) A multi-faceted approach to analyse the effects of environmental variables on geographic range and genetic structure of a perennial psammophilous geophyte: The case of the sea daffodil *pancratium maritimum* L. in the mediterranean basin. *PLoS ONE*, 11, 1–23.

Di Febbraro M., Martinoli A., Russo D., Preatoni D., & Bertolino S. (2016) Modelling the effects of climate change on the risk of invasion by alien squirrels. *Hystrix*, online ver, 1–8.

Foresta M., Carranza M.L., Garfi V., **Di Febbraro M.**, Marchetti M., & Loy A. (2016) A systematic conservation planning approach to fire risk management in Natura 2000 sites. *Journal of Environmental Management*, 181, 574–581.

Frate L., Carranza M.L., Garfi V., **Di Febbraro M.**, Tonti D., Marchetti M., Ottaviano M., Santopuoli G., & Chirici G. (2016) Spatially explicit estimation of forest age by integrating

- remotely sensed data and inverse yield modeling techniques. *iForest*, 9, 63–71.
- Razgour O., Rebelo H., **Di Febraro M.**, & Russo D. (2016) Painting maps with bats: species distribution modelling in bat research and conservation. *Hystrix*, online ver, 1–8.
- De Rosa D., Andriuzzi W., & **Di Febraro M.** (2016) Breeding habitat selection of the Black Woodpecker *Dryocopus martius* L. in Mediterranean forests. *Avocetta*, 40, 62–69.
- Sbragia P., Sibilio G., Innangi M., **Di Febraro M.**, Trifoggi M., Guida M., & De Castro O. (2016) Rare species habitat suitability assessment and reliability evaluation of an expert-based model: a case study of the insectivorous plant *Pinguicula crystallina* Sibth. & Smith subsp. *hirtiflora* (Ten.) Strid (Lentibulariaceae). *Plant Biosystems*, 150, 730–740.
- Scorpio V., Loy A., **Di Febraro M.**, Rizzo A., & Aucelli P. (2016) Hydromorphology meets mammal ecology: river morphological quality, recent channel adjustments and otter resilience. *River Research and Applications*, 32, 267–279.
- Bosso L., **Di Febraro M.**, Cristinzio G., Zoina A., & Russo D. (2016a) Shedding light on the effects of climate change on the potential distribution of *Xylella fastidiosa* in the Mediterranean basin. *Biological Invasions*, 18, 1759–1768.
- 2015**
- Ducci L., Agnelli P., **Di Febraro M.**, Frate L., Russo D., Loy A., Carranza M.L., Santini G., & Roscioni F. (2015) Different bat guilds perceive their habitat in different ways: a multiscale landscape approach for variable selection in species distribution modelling. *Landscape Ecology*, 30, 2047–2159.
- Di Febraro M.** & Mori E. (2015) Potential distribution of alien parakeets in Tuscany (Central Italy): a bioclimatic model approach. *Ethology Ecology & Evolution*, 27, 116–128.
- Di Febraro M.**, Roscioni F., Frate L., Carranza M.L., De Lisio L., De Rosa D., Marchetti M., & Loy A. (2015) Long-term effects of traditional and conservation-oriented forest management on the distribution of vertebrates in Mediterranean forests: a hierarchical hybrid modelling approach. *Diversity and Distributions*, 21, 1141–1154.
- Feuda R., Bannikova A.A., Zemlemerova E.D., **Di Febraro M.**, Loy A., Hutterer R., Aloise G., Zykov A.E., Annesi F., & Colangelo P. (2015) Tracing the evolutionary history of the mole, *Talpa europaea*, through mitochondrial DNA phylogeography and species distribution modelling. *Biological Journal of the Linnean Society*, 114, 495–512.
- Innangi M., D'Alessandro F., Fioretto A., **Di Febraro M.**, D'Alessandro F., Fioretto A., **Di Febraro M.**, D'Alessandro F., Fioretto A., & **Di Febraro M.** (2015) Modeling distribution of Mediterranean beech forests and soil carbon stock under climate change scenarios. *Climate Research*, 66, 25–36.
- Mori E., Mazza G., Marchetti M., Panzeri M., Gager Y., Bertolino S., & **Di Febraro M.** (2015) The masked invader strikes again : the conquest of Italy by the Northern raccoon. *Hystrix*, 26, 47–51.
- Russo D., **Di Febraro M.**, Cistrone L., Jones G., Smeraldo S., Garonna A.P.P., & Bosso L. (2015) Protecting one, protecting both? Scale-dependent ecological differences in two species using dead trees, the rosalia longicorn beetle and the barbastelle bat. *Journal of Zoology*, 297, 165–175.
- Ducci L., Agnelli P., **Di Febraro M.**, Frate L., Russo D., Loy A., Carranza M.L., Santini G., & Roscioni F. (2015) Different bat guilds perceive their habitat in different ways: a multiscale landscape approach for variable selection in species distribution modelling. *Landscape Ecology*, 30, 2047–2159.
- 2014**
- Di Febraro M.** & Loy A. (2014) A new method based on indirect evidences to infer activity pattern in moles. A test on the blind mole in Central Apennines. *Folia Zoologica*, 63, 116–121.
- Roscioni F., Rebelo H., Russo D., Carranza M.L., **Di Febraro M.**, & Loy A. (2014) A modelling

- approach to infer the effects of wind farms on landscape connectivity for bats. *Landscape Ecology*, 29, 891–903.
- Russo D., **Di Febbraro M.**, Rebelo H., Mucedda M., Cistrone L., Agnelli P., De Pasquale P.P., Martinoli A., Scaravelli D., Spilinga C., & Bosso L. (2014) What story does geographic separation of insular bats tell? A case study on Sardinian Rhinolophids. *PLoS One*, 9, e110894.
- 2013**
- Di Febbraro M.**, Lurz P.W.W., Genovesi P., Maiorano L., Girardello M., & Bertolino S. (2013) The use of climatic niches in screening procedures for introduced species to evaluate risk of spread: a case with the American Eastern Grey Squirrel. *PLoS One*, 8, e66559.
- Mori E., **Di Febbraro M.**, Foresta M., Melis P., Romanazzi E., Notari A., & Boggiano F. (2013a) Assessment of the current distribution of free-living parrots and parakeets (Aves: Psittaciformes) in Italy: a synthesis of published data and new records. *Italian Journal of Zoology*, 80, 158–167.
- Mori E., Sforzi A., & **Di Febbraro M.** (2013b) From the Apennines to the Alps: recent range expansion of the crested porcupine *Hystrix cristata* L., 1758 (Mammalia: Rodentia: Hystricidae) in Italy. *Italian Journal of Zoology*, 80, 469–480.
- Roscioni F., Russo D., **Di Febbraro M.**, Frate L., Carranza M.L., & Loy A. (2013) Regional-scale modelling of the cumulative impact of wind farms on bats. *Biodiversity and Conservation*, 22, 1821–1835.
- Di Febbraro M.**, Lurz P.W.W., Genovesi P., Maiorano L., Girardello M., & Bertolino S. (2013) The use of climatic niches in screening procedures for introduced species to evaluate risk of spread: a case with the American Eastern Grey Squirrel. *PLoS One*, 8, e66559.
- Mori E., **Di Febbraro M.**, Foresta M., Melis P., Romanazzi E., Notari A., & Boggiano F. (2013a) Assessment of the current distribution of free-living parrots and parakeets (Aves: Psittaciformes) in Italy: a synthesis of published data and new records. *Italian Journal of Zoology*, 80, 158–167.

I authorise the use of my personal data in compliance with Legislative Decree 196/03

Signature

18/10/2018

Mirko Di Febbraro