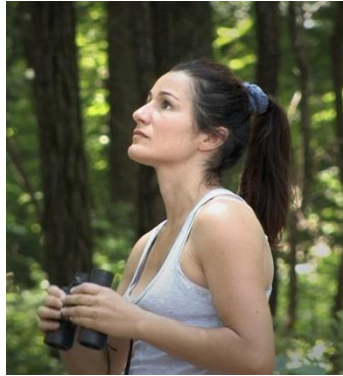


Francesca Della Rocca – Curriculum Vitae



Personal Information

Birth	Rome 25-07-1977
Institution	University of Pavia
Office address	Department of Earth and Environmental Sciences - DSTA Via Adolfo Ferrata 9, 27100 Pavia - ITALY
Contacts	fdellarocca@gmail.com ; francesca.dellarocca@unipv.it

Summary

I've experience in the field of Biodiversity Management and Conservation. In addition to a Bachelor, Master and PhD degrees concerning mainly this field, I also have 10 years of experience working in projects aimed at the management of natural areas or rare species. I started monitoring amphibians and fishes (Ciclidi) and factors affecting wetland ecosystem in Italy and Africa (Uganda, Kenya). Then, I specialised in forest ecosystem management, monitoring saproxylic beetles species (such as *Lucanus cervus* and *Osmoderma eremita*) and analysing the effect of deadwood volume on species richness. Part of my researches is also dedicated to the management of animal diversity in natural and agricultural ecosystems.

My best achievements concern: 1) the implementation of many deadwood management measures for saproxylic beetles. This measures were used by Ticino Regional Park to work out the management plan for the SCI (Site of Community Importance "Boschi Negri e Moriano" and "Boschi di Vaccarizza" in Ticino Regional Park, Italy; 2) the development of an action plan for monitoring spectacled salamander (*Salamandrina terdigitata*) and for managing its habitat. This plan was completely elaborated by me and was implemented by the "Ente Roma Natura" (the institution which manages the urban parks of Rome, Italy). During this tree years project I also trained park staff in monitoring techniques.

My last and important achievement was the elaboration of the LIFE project LIFE14 NAT/IT/000209 – EREMITA – entitled "Coordinated actions to conserve remaining isolated populations of forest insects in Emilia-Romagna region". The project passed the evaluation process of European Commissions and will start at the end of 2015.

Currently my research projects are:

- 1) LIFE14 NAT/IT/000209 – EREMITA - Coordinated actions to preserve residual and isolated populations of forest and freshwater insects in Emilia- Romagna.
- 2) CARIPLO foundation project FRAGENZIANE - Fragmented *Gentiana pneumonanthe* populations, habitats and associated fauna in local ecological network. Actions for restoring *Gentiana pneumonanthe* populations and its

associated species such as the butterfly *Maculinea alcon*.

- 3) CARIPLO foundation project AMBROSIANO. The aim is to identify and to pilot test the process, policies and operational mechanisms needed for the implementations of an ecological corridor between the Alto-Milanese natural park and the Ticino Valley natural park.
- 4) CARIPLO foundation and Ticino Park project: Management of wetland ecosystems in the Po valley, Italy.
- 5) Forest management experimental researches in Bosco Siro-Negri, Ticino Valley regional Park.

Education and Training

<p>Dates</p> <p>Title</p> <p>Name, address and type of organisation</p> <p>Principal subjects/occupational skills covered</p>	<p>From: 2004-12-01 to: 2007-08-02</p> <p>PhD in Animal Biology</p> <p>University of Rome "La Sapienza". Viale dell'università 32, Rome.</p> <ul style="list-style-type: none"> • Mammal ecology especially on what concerns density estimation and population dynamic; • Social behaviour of African elephants; • Development of a mathematical model for estimating shoulder height of elephants; • Development of a photo identification software for elephant recognition; • Principles of applied statistics in ecology: analysis of variance, linear regression models, multivariate statistical; • Use of the statistical method: Distance Sampling; • Use of the behavioural software : Observer.
<p>Dates</p> <p>Title</p> <p>Name, address and type of organisation</p> <p>Principal subjects/occupational skills covered</p>	<p>From: 2002-09-30 to: 2003-09-30</p> <p>Master in Animal Biodiversity Conservation: protected areas and ecological networks</p> <p>University of Rome "La Sapienza". Viale dell'Università 32, Rome.</p> <ul style="list-style-type: none"> • Conservation Biology; • Wildlife management techniques; • Conservation genetics; • Protected Area Conservation and Ecological Network; • The Human Dimension; • Theory and tools for a sustainable use of resources; • Use of the Geographic Information Systems (GIS); • National, Communitarian and International regulations.
<p>Dates</p> <p>Title</p> <p>Name, address and type of organisation</p> <p>Principal subjects/occupational skills covered</p>	<p>From: 1996-10-01 to: 2002-05-28</p> <p>Ms in Biological Sciences</p> <p>University of Rome "Roma Tre". Viale Marconi 446, 00146, Rome.</p> <ul style="list-style-type: none"> • Management and Conservation of wetland ecosystems; • Ecology and reproductive biology of the spectacled salamander (<i>Salamandrina terdigitata</i>); • Monitoring and conservation of this salamander (through density estimation and detection of the possible factors influencing its decline); • Application of Mark - Recapture technique for monitoring amphibians; • Use of the Mark software for estimating population size; • Applied Statistics in ecology: analysis of variance, linear regression models.

Professional Experience

<p>Dates</p> <p>Occupation</p> <p>Type of business</p> <p>Name and Address of Employer</p> <p>Nature of Duties</p>	<p>From 2012-07-01 to present</p> <p>Post-doctoral fellowship</p> <p>University - Research / biodiversity conservation and management</p> <p>University of Pavia, Department of Earth and Environmental Sciences - DSTA Via Adolfo Ferrata 9, 27100 Pavia.</p> <p>Research and actions for the management of animal diversity in natural and agricultural ecosystems:</p> <ol style="list-style-type: none"> 1) LIFE14 NAT/IT/000209 – EREMITA - Coordinated actions to preserve residual and isolated populations of forest and freshwater insects in Emilia- Romagna. 2) CARIPLO foundation project FRAGENZIANE - Fragmented <i>Gentiana pneumonanthe</i> populations, habitats and associated fauna in local ecological network. Actions for restoring <i>Gentiana pneumonanthe</i> populations and its associated species such as the butterfly <i>Maculinea alcon</i>. 3) CARIPLO foundation project AMBROSIA NO. The aim is to identify and to pilot test the process, policies and operational mechanisms needed for the implementations of an ecological corridor between the Alto-Milanese natural park and the Ticino Valley natural park. 4) CARIPLO foundation and Ticino Park project: Management of wetland ecosystems in the Po valley, Italy. 5) Forest management experimental researches in Bosco Siro-Negri, Ticino Valley regional Park 6) LIFE10/NAT/IT/241 - TIB-TRANS INSUBRIA BIONET working in Action A6, mapping the distribution of pollarded willows; Action E 2.3, mapping the distribution of <i>Lucanus cervus</i> and <i>Osmoderma eremita</i>; Action C6,C7,C8 Evaluating measure for deadwood and willows management (ended on December 2015) 7) LIFE09 NAT/IT000093 – ECORICE , working in Action E5, international networking (ended in February 2014) ;
<p>Dates</p> <p>Type of business</p> <p>Name and Address of Employer</p> <p>Occupation</p> <p>Nature of Duties</p>	<p>From 2013-04-01 to 2013- 31-12</p> <p>Monitoring program</p> <p>Ente Parco Naturale Regionale Antola, 16029, Torriglia, Genoa.</p> <p>Research contract</p> <p>Monitoring the presence and distribution of entomological fauna (especially those species listed in the Habitat Directive Annexes), within the 2007-2013 Rural development program. The results will be used for drafting the management plan of 5 SCI within the Parco Antola territory.</p>
<p>Dates</p> <p>Type of business</p> <p>Name and Address of Employer</p> <p>Occupation</p> <p>Nature of Duties</p>	<p>From 2012-01-01 to 2012-07-01</p> <p>University - Research / biodiversity conservation and management</p> <p>University of Pavia Department of Earth and Environmental Sciences - DSTA Via Adolfo Ferrata 9, 27100 Pavia.</p> <p>Research Contract</p> <p>Sustainable management of rice-agroecosystem in northern Italy: In particular I worked in a LIFE project ECO-RICE: (ECOlogical network of a RICE agroEcosystem), Action E5: Technical service and international networking coordination</p>
<p>Dates</p>	<p>From 2011-07-01 to 2012-01-01</p>

Type of business	Natural Museum
Name and Address of Employer	Museo Regionale di Scienze Naturali della Valle d'Aosta, Loc. Tache – Castello, 11010 Saint-Pierre (AO)
Occupation	Research contract
Nature of Duties	Management of protected areas and natural elements of Valle d'Aosta: <ol style="list-style-type: none"> 1) Monitoring of saproxylic beetles in the Coniferous forests 2) Analysis of saproxylic beetles richness and density and indication of the "ecological value" of the species 3) Advise for the management of deadwood in coniferous forests 4) Setting up of a collection of saproxylic beetles living coniferous forests
Dates	From 2011-06-01 to 2011-08-01
Type of business	Consulting agency
Name and Address of Employer	Studio associato EcoLogo, via Lamarmora n. 12, Magenta (MI).
Occupation	Environmental consulting
Nature of Duties	<ol style="list-style-type: none"> 1) Assessing the effectiveness of an ecological corridor in the municipality of Samarate (VA) northern Italy. 2) Preparing a draft containing instructions for environmental mitigation and compensation.
Dates	From 2009-05-01 to 2011-05-01
Type of business	University - Research / biodiversity conservation and management
Name and Address of Employer	University of Pavia Department of Earth and Environmental Sciences - DSTA Via Adolfo Ferrata 9, 27100 Pavia.
Occupation	Research fellowship
Nature of Duties	Elaboration of a management plan for the SCI (Site of Community Importance “Boschi Negri e Moriano” and “Boschi di Vaccarizza” in Ticino Regional Park, Italy. My main activities were: <ol style="list-style-type: none"> 1) Monitoring saproxylic beetles and measuring deadwood volume in the igrophylous forests of the Po Plain Valley. 2) Evaluating the influence of forest management on saproxylic beetles richness. 3) Identifying Deadwood threshold for a sustainable use. 4) Writing the deadwood management plan.
Dates	From 2009-01-01 to 2009-06-01
Type of business	No-profit Association of independent researchers
Name and Address of Employer	Ornis Italica, Piazza Crati 15, 00199 Rome. Web: www.ornisitalica.com
Occupation	Research contract
Nature of Duties	<ol style="list-style-type: none"> 1) Monitoring (by webcams placed in the nest) of the breeding pairs of peregrine falcons nesting in all the world. 2) Design and installation of nest boxes for kestrel and horned owl 3) Monitoring breeding pairs of these species

Dates	From 2005-12-01 to 2008-12-01
Type of business	Regional Environment agency
Name and Address of Employer	Ente Regionale “Roma Natura”, Villa Mazzanti, Via Gomenizza 81, 00195, Rome.
Occupation	Research contract
Nature of Duties	Curator and chief scientist for a three-years project on the ecology of a population of <i>Salamandrina terdigitata</i> , a threatened Italian amphibian. My main activities were: 1) Training of Park Rangers; 2) Application of Mark - Recapture techniques; 3) Supervision of the monitoring; 4) Preparation of annual reports; 5) Meetings with the technical and administrative personnel of the entity.
Dates	From 2005-07-01 to 2005-12-01
Type of business	Environment management agency
Name and Address of Employer	Istituto di Ecologia Applicata – IEA, Via Cremona 71, 00161, Rome.
Occupation	Research contract
Nature of Duties	I worked in a LIFE Natura project LIFE04/NAT/IT/000144, entitled “Improving coexistence of Large Carnivores and agriculture in S. Europe – COEX”, to assess what is the opinion of resident population (human dimension) on the two large italian mammals: Wolf and Bear.
Dates	From 2002-06-01 to 2002-10-01
Type of business	University - Research / biodiversity conservation and management
Name and Address of Employer	Università di Roma “Tor Vergata”, Dipartimento di Biologia, Laboratorio di Ecologia sperimentale ed acquacoltura, Via Cracovia 1, Rome
Occupation	Research fellowship
Nature of Duties	I worked in a research program “STREAMES”: “influence of the freshwater macrobentonic community on the nutrient retention”.

Language Skills

Language	Ability to Listen	Ability to Read	Ability to Speak	Ability to Write
Italian	Proficient user	Proficient user	Proficient user	Proficient user
English	Proficient user	Proficient user	Independent user	Independent user
French	Proficient user	Independent user	Independent user	Basic user

Teaching

Courses and seminars at University

Adjunct professor (from 2015 to present)

Course: **LABORATORY OF METHODS AND TECHNOLOGIES FOR THE ENVIRONMENT**, BSc of Biological Sciences, Department of Biology and Biotechnology

Lectures (from 2003 to present)

- *The importance of dead wood for the conservation of forest ecosystem* in the course of Zoocenosis and nature conservation held by Prof. G. Bogliani, University of Pavia.
- *The Power Analysis as a tool for planning sampling protocols*, in the course of Statistical analysis of ecological data, held by Prof. L. Luiselli, University of Rome “Roma Tre”.
- *Ecology and reproductive biology of Salamandrina terdigitata* in the course of Animal Ecology, held by Prof. M. Bologna.

Teaching assistant (from 1999 to 2005) in the course of

- Zoology and Animal Diversity, held by Prof. R. Argano. Department of Animal and Human Biology, University of Rome “La Sapienza”.
- Zoological laboratories, Department of Biology, University of Rome “Roma tre”

Past student theses co-supervision

- Stefanelli S., 2015. Coleotteri e Legno morto: Uso di specie arboree autoctone ed alloctone nella gestione forestale. *Master of Science*, University of Pavia. Supervisor Prof. Giuseppe Bogliani
- Zanella M., 2013. Ricchezza e distribuzione dei coleotteri Carabidi nella Riserva Naturale Integrale Statale Bosco Siro Negri. *Bachelor degree*, University of Pavia. Supervisor Prof. Giuseppe Bogliani
- Stefanelli S., 2012. Ceck-list delle specie di coleotteri saproxilici nel Parco della Valle del Ticino. *Bachelor degree*, University of Pavia. Supervisor Prof. Giuseppe Bogliani
- Sutti M., 2010. Biodiversità strutturale e legno morto nei boschi del Parco della Valle del Ticino. *Bachelor degree*, University of Bologna. Supervisor Prof Enrico Muzzi
- Bottari V., 2007. Aspetti preliminari dell'attività terrestre di Salamandrina perspicillata. *Bachelor degree*, University of Rome “La Sapienza”. Supervisor Prof Carlo Utzeri.
- Borgi M., 2007 Social dynamics in a population of African elephant in the Zacuma National Park: parental care.
- Massaro L., 2007. *Photo-Identification of individuals in a population of African elephants (Loxodonta Africana)* in Zakouma National Park, Chad. *Bachelor degree*, University of Rome “La Sapienza”. Supervisor Prof Alessia Ortolani.
- Rossi S., 2007. *Distribution of african elephant (Loxodonta africana a.): influence of anthropogenic factor and differences between familiar groups and males. The case study of the Zakouma population in Chad.* *Bachelor degree*, University of Rome “La Sapienza”. Supervisor Prof Alessia Ortolani.

Currently I'm co-supervising two undergraduate Master student

Full papers published on International indexed journals (ISI)

Romiti, F., Bissattini, A., Buono, V., Cifarelli, C., **Della Rocca, F.**, Akani, G., Luiselli, L., Carpaneto, G., Superti, V., Vignoli, L. (2016). A simple tool to make a long story short: Photographic Identification Method (PIM) using natural body marks. *Current Zoology* (submitted)

Campanaro A, Zapponi L., Hardersen S., Méndez M., Al Fulaij N., Audisio P., Bardiani M, Bower L., Carpaneto G.M., Corezzola S., **Della Rocca F.**, Harvey D., Hawes C., Johnson H., Kadej M., Karg J., Minari E., Rink M., Smolis A., Sprecher E., Thomaes A., Toni I., Vrezec A., Zauli A., Zilioli M., Chiari S. (2016). A European monitoring protocol for the stag beetle, a saproxylic flagship species. *Insect Conservation and Diversity* (submitted)

Della Rocca F., Stefanelli S., Bogliani G. 2016. *Robinia pseudoacacia* as a surrogate for native tree species for saproxylic beetles inhabiting the riparian mixed forests of northern Italy. *Agricultural and Forest Entomology* (accepted).

Stefanelli S., **Della Rocca F.**, Bogliani G., 2014. Saproxylic beetles of the Po plain woodland, Italy. *Biodiversity data journal*. DOI 10.3897/BDJ.2.e1106.

Vignoli L., D'Amen M., **Della Rocca F.**, Luiselli L. & Bologna M.A., 2014. How do moon phases influence amphibian reproduction in contrasting habitats? *Amphibia-Reptilia* 35 (2): 247-254.

Della Rocca F., Stefanelli S., Campanaro A., Pasquaretta C., Bogliani G. 2014. Effect of deadwood management on saproxylic beetles richness in the floodplain forests of northern Italy: some measure for a deadwood sustainable use. *J. Insect Conservation* 18:121-136.

Della Rocca F., Bottari V., Filippi E., Luiselli L. & Uteri C., 2008. Modelling aspects of terrestrial ecology in an Italian endemic salamander, *Salamandrina perspicillata*. *Revue d'Ecologie (Terre et Vie)* 63: 261-270.

Della Rocca F., 2007. How tall is an elephant? Two methods for estimating elephant height. *Web Ecology* 7: 1–10.

Della Rocca F., Vignoli L. & Bologna M.A., 2005. The Reproductive biology of *Salamandrina terdigitata* (Caudata, Salamandridae). *Herpetological Journal* 15(4): 273-278.

Monographs and Book chapters

Della Rocca F., 2014. I coleotteri saproxilici delle foreste del Parco. In: Casale F., Sala D., Bellani A. (a cura di), 2014. *Il patrimonio faunistico del Parco del Ticino negli anni 2000*. Parco lombardo della Valle del Ticino e Fondazione Lombardia per l'Ambiente: 183-197.

Della Rocca F., Vignoli L., 2009. La Salamandrina dagli occhiali. Gli studi e le guide di Roma Natura 1. Ente Regionale RomaNatura, Roma, pp 64.

Ardevini A., Cinque L., **Della Rocca F.** & Sangineto E., 2007. A Semi-automatic Approach to Photo Identification of Wild Elephants. *IbPRIA* (1) 2007: 225-232.

Scientific and Technical Reports

Della Rocca F., Stefanelli S., Puopolo F. 2015. *Distribuzione reale e potenziale di Osmoderma eremita e Rosalia alpina nel Parco dell'Appennino Tosco – Emiliano*. Relazione tecnica. Parco dell'Appennino Tosco Emiliano.

Della Rocca F., Stefanelli S. 2014. *Monitoraggio della presenza e distribuzione dell'entomofauna di importanza comunitaria e conservazionistica nei siti della Rete Natura 2000 del Parco Nazionale dell'Appennino tosco-emiliano*. Relazione tecnica. Parco dell'Appennino Tosco Emiliano.

Bogliani G. & **Della Rocca F.**, 2014. *Biodiversity and rice production in rice agroecosystem*. The Action Plan. Action E.5 - International Rice Field Ecological Network. LIFE Project.

Bogliani G. & **Della Rocca F.**, 2014. *Linee Guida per la gestione sostenibile dell'agroecosistema risicolo*. Action C.2.3 - International Rice Field Ecological Network. LIFE Project.

Della Rocca F., 2012, 2013, 2014, 2015 . *Monitoraggio della coleotterofauna saproxilica*. Relazione tecnica. Azione E.2.3 –Trans Insubria Bionet (TIB).Life Project

Della Rocca F., 2012 . *Mappatura di dettagli dei filari di Salici capitozzati*. Relazione tecnica. Azione A.6 Trans Insubria Bionet (TIB).Life Project

Della Rocca F., 2012. *I coleotteri saproxilici come indicatori dello stato di conservazione dei boschi di conifere della Valle d'Aosta*. Relazione tecnica. Progetto “VDA NATURE METRO” – Osservatorio Regionale Biodiversità. Museo Regionale di Scienze Naturali della Valle d'Aosta.

National and International Proceedings

Della Rocca F. 2015. *Monitoraggio della coleotterofauna saproxilica*. Final congress of the life project: Trans Insubria Bionet (TIB) „Vive solo chi si Muove – Connettere e comunicare la natura per conservare la biodiversità“. Varese 19-20 November 2015.

Della Rocca F., Stefanelli S., Campanaro A., Bogliani G. 2012. Deadwood threshold for saproxilic beetles in Po Plain woodlands, Italy. 7th Symposium and Workshop on the Conservation of Saproxilic Beetles; 12-14 My 2012, Granada, Spagna.

Della Rocca F., Campanaro A., Bogliani G. 2011. I coleotteri saproxilici del parco del Ticino, uno studio pilota per l'adozione di corrette politiche gestionali. 23° Congresso Nazionale di Entomologia; 13-16 jun 2011, Genova, Italia.

Catoni C., Carere C., Costantini D., Imperatori M., **Della Rocca F.**, Dell'Omo G. 2011. Big brother approach for studying breeding decisions and success: Webcam technology on peregrine falcon nests. 2° Convegno Internazionale sulla Fauna Problematica: Conservazione e gestione; 3 – 5 February, Genazzano, Roma, Italia.

Della Rocca F., Bogliani G. 2010. I coleotteri saproxilici dei boschi del Parco del Ticino. Convegno dal titolo “Insetti: status e conoscenze, gestione e conservazione”; 4 dicembre 2010, Casale Monferrato, Italia.

Carere C., Costantini D., Imperatori M., **Della Rocca F.** and Dell'Omo G., 2010. Big brother approach to investigate the reproductive decisions and breeding success of peregrine falcons. 5th European Conference on Behavioural Biology; 16-18 luglio, Ferrara, Italia.

Vignoli L., **Della Rocca F.**, Luiselli L. & Bologna M.A. 2008. Climate factors affect demography and reproductive biology in a population of the northern spectacled salamander (*Salamandrina perspicillata*) from central Italy: evidences from a long term study. 18° National Congress of “Società Italiana di Ecologia (SitE)”; 1-3 settembre Parma, Italia.

Vignoli L., Scalici M., **Della Rocca F.** & Bologna M.A., 2006. Growth of *Salamandrina perspicillata*: a study of five years. 6° National Congress of “Societas Herpetologica talica”; 27 Settembre-1 Ottobre, Roma, Italia.

Della Rocca F., Petriccione D., Massaro L., Ortolani A. 2006 - “How tall is an elephant? A method for estimating elephant heights to assess their age”. 11th congress of the International Society for Behavioral Ecology; 23-29 luglio , Tours, France.

Massaro L , Petriccione D., **Della Rocca F.** 2006 - “Morphological Photo-Identification in a population of African elephants (*Loxodonta Africana*)”. 11th congress of the International Society for Behavioral Ecology; 23-29 luglio , Tours, France.

Petriccione D., Ardovini A., Cinque L., **Della Rocca F.**, Massaro L., Ortolani A., Sangineto E. 2006- "Computer-aided wild elephant identification". 11th congress of the International Society for Behavioral Ecology; 23-29 luglio , Tours, France.

Borgi M., **Della Rocca F.**, Ortolani A.. 2006 - "Caring for the young in African (*Loxodonta africana*): measuring maternal investment and its costs". 11th congress of the International Society for Behavioral Ecology; 23-29 luglio , Tours, France.

Della Rocca F., Vignoli L. & Bologna M.A., 2002. Struttura di una popolazione planiziale tirrenica di Salamandrina terdigitata (Amphibia, Salamandridae). 4° Nazional Congress of "Societas Herpetologica Italica"; 18-22 Giugno, Ercolano.

Vignoli L., **Della Rocca F.** & Bologna M.A., 2000. Biologia riproduttiva di una popolazione planiziale tirrenica di salamandrina dagli occhiali. Atti 3° Nazional Congress of "Societas Herpetologica Italica"; 14-16 Settembre, Pavia, Italia.

Vignoli L., **Della Rocca F.** & Bologna M.A., 2000. Predazione di uova di salamandrina dagli occhiali da parte di tricotteri. 3° Nazional Congress of "Societas Herpetologica Italica"; 14-16 Settembre, Pavia, Italia.

Data

Firma