

## Anna Fabiani - Curriculum Vitae

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### Personal Information

**Place and Date of Birth** London, 18.08.1971  
**Nationality** Italian

### Education

- 1999 - 2002 UNIVERSITY OF DURHAM, DURHAM - ENGLAND  
**PhD Molecular Ecology**  
*Thesis title:* Molecular ecology of southern elephant seals (*Mirounga leonina*): mating system and population genetics  
*Rating:* passed with minor corrections; *Supervisor:* Dr Rus Hoelzel
- 2002 CONSERVATION & RESEARCH CENTER, FRONT ROYAL - VIRGINIA, USA  
**'Recent Advance in Conservation Genetics' Course**  
By the American Genetic Association and the Laboratory of Genomic Diversity of the National Cancer Institute at the Smithsonian Institution's National Zoological Park. Intensive course in methods, interpretation and applications of molecular genetic analyses for conservation of endangered species
- 1998 UNIVERSITY "LA SAPIENZA", ROME - ITALY  
**Esame di Stato in Biological Sciences**  
One-year professional apprenticeship with oral and written exams, to become a member of the Italian Society of Professional Biologists
- 1990 - 1996 UNIVERSITY "LA SAPIENZA", ROME - ITALY  
**Degree in Biological Sciences**  
*Thesis title:* Structural and functional aspects of male agonistic behaviour in southern elephant seals (*Mirounga leonina*)  
*Main Subjects:* Biology, Ecology, Zoology, Wildlife Conservation  
*Rating:* 110/110 cum laude; *Supervisor:* Prof. Luigi Boitani

### Research and professional experience

- 2005 UNIVERSITY "ROMA TRE", ROME - ITALY  
**Teaching position**  
Teaching under-graduate course in Ethology and Behavioural Ecology at the Department of Biological Sciences.
- 2003 - today UNIVERSITY "TOR VERGATA", ROME - ITALY  
**Post-doctoral Position**  
Conservation genetics of land iguanas of Galapagos Islands. The principal aim of this research is to investigate the genetic structure and diversity of the populations of *Conolophus subcristatus*, and to gain genetic information that can help and support the management and the conservation of this species.

- 2003 - today  
 RAI, ROME – ITALY  
**Scientific Consultant - Web Content Manager ‘Explora’ ([www.explora.rai.it](http://www.explora.rai.it) - RAI Edu Channel)**  
 Scientific and technical advising on contents, quality and presentation of the program web site
- 2004 – today  
 ISTITUTO DELLA ENCICLOPEDIA ITALIANA  
**Scientific Consultant and Author**  
 Author of scientific entries of the “Enciclopedia Italiana Treccani, Enciclopedia dei Ragazzi”. Subject of the entries: general biology and zoology.
- 2003  
 INSTITUTE OF APPLIED ECOLOGY (IEA), ROME - ITALY  
**Scientific Consultant**  
 Advising and translation of scientific proposals
- 1999 - 2002  
 UNIVERSITY OF DURHAM, DURHAM - ENGLAND  
**PhD Student**  
 Molecular ecology of elephant seals, aiming in particular to:
  - determine male reproductive variance in the population with the analysis of microsatellite markers;
  - analyse male and female patterns of dispersal, and the genetic structure of the populations of the South Ocean
  - investigate the patterns of population structure evolution and the conservation implications for the species
- 2000 - 2002  
 UNIVERSITY OF DURHAM, DURHAM - ENGLAND  
**Practical Demonstrator**  
 Demonstrating in Statistics, Cell Biology, Evolutionary Biology and Behavioural Biology, 1<sup>st</sup> and 2<sup>nd</sup> Year Modules, Biological Sciences
- 1998  
 OCSE (Organizzazione di Cooperazione e Sviluppo Economico) and PISA (Project of International Student Assessment), ROME - ITALY  
**Scientific Consultant** - OCSE, Italy  
 Advising on programs for student assessment
- 1998  
 RAI, ROME - ITALY  
**Scientific Consultant**  
 Reviewing and translating wildlife documentary texts
- 1997  
 UNIVERSITÀ “LA SAPIENZA”, ROME - ITALY  
**Apprenticeship in Genetics**  
 Professional apprenticeship to become a member of the Italian Society of Professional Biologists
- 1995 – 1997  
 SEA LION ISLAND - FALKLAND ISLANDS  
**Field-Work Researcher**  
 Research on southern elephant seals for first degree project on male agonistic behaviour and sample collection for DNA analyses for PhD project, including: observational studies, animal tagging, skin-sample collection, photo, video and vocal recording, GPS data collection, seal handling
- 1994  
 PENINSULA VALDÈS - ARGENTINA  
**Field-Work Researcher**  
 Research on southern elephant seals for first degree project
- 1994  
 UNIVERSITÀ “ROMA 3”, ROMA - ITALY  
**Teaching Assistant**  
 Demonstrating in Botany and Zoology, 1<sup>st</sup> to 3<sup>rd</sup> Year Modules, Biological Sciences

## ***Academic Awards and Grants***

1998, 2000, 2001	<i>Italian National Research Council Grant for Study Abroad, CNR, ROME</i>
1998	<i>Post-lauream Grant for Study Abroad, UNIVERSITÀ "LA SAPIENZA", ROME</i>
1996	<i>Field-Work Grant for Abroad Projects, UNIVERSITÀ "LA SAPIENZA", ROME</i>
1994	<i>Teaching Assistance Grant, UNIVERSITÀ "ROMA 3", ROME</i>

## ***Skills and Capabilities***

### **Languages**

- Italian: Mother tongue
- English: Fluent (spoken and written)
- Spanish: Fair (reading and comprehension)

### **Field Activities**

- Very good experience in long term field work, and in working with Pinnipeds
- Experiences in general wild population censusing and management during "*Wildlife Management and Techniques*" and "*Animal Ecology and Conservation Biology*" courses, taught by Prof Luigi Boitani, University of Rome "La Sapienza" (wild boar capturing, transect sampling, habitat use and environmental impact evaluation, scat collection)

### **Molecular Biology and Computer Experience**

- Basic techniques of biological methods; extraction and amplification (Polymerase Chain Reaction); MtDNA purification and sequencing
- Good knowledge of Macintosh Systems and Windows 95/98/NT, Data Base and Statistical Software; software for DNA sequence and microsatellite analyses
- Basic knowledge of ARC/INFO and ArchView ("*Introduction to the use ARC/INFO and ArchView*" Basic Course - INFORMATION AND TECHNOLOGY SERVICE, UNIVERSITY OF DURHAM - ENGLAND)

## ***Scientific Publications and Conference Presentations***

- Fabiani A, Galimberti F, Sanvito S, Hoelzel AR. Relatedness and site fidelity at the southern elephant (*Mirounga leonina*) breeding colony in the Falkland Islands. *Animal Behaviour* **In press**
- Costantini D, Dell’Omo G, Casagrande S, Fabiani A, Carosi S, Bertacche V, Marquez C, Snell H, Snell H, Tapia W, Gentile G, 2005. Inter-population variation of carotenoids in Galapagos land iguanas (*Conolophus subcristatus*). *Comparative Biochemistry and Physiology, Part B* **142** (239-244)
- Fabiani A, Galimberti F, Sanvito S, Hoelzel AR, 2004. Extreme polygyny in the southern elephant seal: behavioural estimates and genetic paternity. *Behavioural Ecology* **15** (961-969)
- Fabiani A, Hoelzel AR, Galimberti F, Muelbert MMC, 2003. Long-range paternal gene flow in the southern elephant seal. *Science* **299** (676)
- Galimberti F, Fabiani A, Boitani L, 2003. Effect of social and spatial scales on dominance hierarchy analysis: a case study on southern elephant seals. *Journal of Ethology* **21** (131-136)
- Galimberti F, Fabiani A, Sanvito S, 2002. Measures of breeding inequality: a case study in southern elephant seals. *Journal of Canadian Zoology* **80** (1240-1249)
- Galimberti F, Fabiani A, Sanvito S, 2001. Opportunity for selection in southern elephant seals: the effect of spatial scale analysis. *Journal of Zoology* **255** (93-97)
- Galimberti F, Sanvito S, Boitani L, Fabiani A, 2001. Population viability of southern elephant seals of the Falkland Islands. *Animal Conservation* **4** (81-88)
  
- Fabiani A, Gentile G. DNA microsatellite e struttura genetica della popolazione di iguane terrestri (*Conolophus subcristatus*) dell’isola di Santa Cruz, Galapagos: risultati ed implicazioni per la conservazione. *66° Congresso Nazionale Unione Zoologica Italiana* 19-22 September 2005, Roma (Italy)
- Fabiani A, Hoelzel AR, Galimberti F, Muelbert MMC. Flusso genico paterno su vaste distanze nell’elefante marino del sud (*Mirounga leonina*) - *Genetica della Conservazione: stato della ricerca in Italia* 14-15 February 2003, Firenze (Italy)
- Fabiani A, Galimberti F, Hoelzel AR. Reproductive success in male southern elephant seals of Sea Lion Island (Falkland Islands): behavioural estimates and paternity - *14th Biennial Conference on the Biology of Marine Mammals (Society of Marine Mammalogy)*, Nov. 28 - Dec. 3 2001, Vancouver (Canada)
- Fabiani A, Galimberti F, Hoelzel AR. Male reproductive success in southern elephant seals (*Mirounga leonina*): behavioural estimates and genetic paternity - *European Cetacean Society, 15th annual conference*, 6-10 May 2001, Rome (Italy)