

# Irene Pellegrino

## BIO AND EDUCATION

I'm interested in bird monitoring (bird atlas and field census), bird ringing (Italian license A), bioacoustic and ethological researches. Genetic analysis (mtDNA, nuclear and now SNPs markers) on species of conservation interest (*Austropotamobius complex*, *Athene noctua*, *Alectoris rufa*, *Anser anser*, *Alectoris barbara*). Genetic diversity and phylogeography of European populations of Little Owl *Athene noctua* in collaboration with Cino Pertoldi (Aarus and Aalborg University, Denmark), Martin Salek (Institute of Vertebrate Biology, Academy of Sciences of the Czech Republic). Samples were also provided by Natural museums and rehabilitation centers from France, Spain, Portugal, Greece, Hungary, Cyprus, Netherland, Germany, Austria, Switzerland. Genetic diversity of Greylag goose *Anser anser* from France, Norway and Netherland in collaborations with Mathieu Boos (Naturconsta, France).

**March, 2011** - Ph.D Environmental Science. Department of Science and Technological Innovation, University of Piemonte Orientale, Alessandria, Italy. Thesis: Phylogeography and variability analysis in natural populations of *Athene noctua* and *Alectoris rufa*. Supervisor: Prof. M. Cucco

**July, 2007** - Master's degree Biological Science, Animal conservation and biodiversity. Biological Science, Faculty of Mathematical, Physical and Natural Sciences, University of Turin, Italy. Thesis: *Athene noctua*: genetic biodiversity and acoustics-morphological variability of a nocturnal raptor of agroecosystems. Supervisors: Prof. M. Del Pero; Prof. M. Cucco

**February, 2005** - Bachelor's degree Natural Science. Faculty of Mathematical, Physical and Natural Sciences, University of Turin, Italy. Thesis argument: ornithology.

## UNIVERSITY CAREER

2015-2016	Research fellow, University of Piemonte Orientale BIO/05
2015-2016	Contract professor Ecoethology and Animal ecology, Università del Piemonte Orientale
2014-2015	Contract professor Ethology and Animal ecology, Università del Piemonte Orientale
2013-2015	Research fellow, University of Piemonte Orientale BIO/05
2011-2013	Research fellow, University of Piemonte Orientale BIO/05
2010-2011	Post doc, research fellow, Università del Piemonte Orientale

## SCIENTIFIC POSITIONS

<b>2014-</b>	Assistant editor for <i>Rivista Ornitologica Italiana</i>
<b>2013-2016</b>	Reviewer for <i>Italian Journal of Zoology</i> <i>European Journal of Wildlife Research</i> <i>Biological Journal of the Linnean Society</i> <i>International Journal of Genomics</i>

## MAIN FIELDS OF INTEREST

1. Genetic
2. Ornithology
3. Conservation genetic
4. Phylogeography
5. Ethology

## CURRENT ISSUES OF RESEARCH

1. **Scientific check and validation of the ornithological data from the database of Gruppo Piemontese Studi Ornitologici "F. A. Bonelli" Onlus (GPSO).**

Validazione scientifica di una banca dati ornitologica di un milione di dati circa.

2. **Genetic analyses on pallid swift *Apus pallidus***

Analyses of mtDNA markers to establish the taxonomic status of this cryptic species of *Apus*.

3. **Genetic analyses on *Agrilus viridis***

Analyses of mtDNA markers to investigate genetic differences between *Agrilus viridis* that use different plants, in particular *Corylus avellana*.

4. **Genotyping by sequencing su *Athene noctua***

Develop of a SNPs panels in order to genetically characterize *Athene noctua* european populations.

## CURRENT FUNDED PROJECTS

## TOP FIVE PAPERS

1. **Pellegrino I**, Boatti L, Cucco M, Mignone F, Kristensen TN, Mucci N, Randi E, Ruiz-Gonzalez A, Pertoldi C, 2015. Development of SNP markers for population structure and phylogeography characterization in little owl (*Athene noctua*) using a genotyping- by-sequencing approach. Conservation Genetic Resources. doi: 10.1007/s12686-015-0513-8
2. Bernini G, Bellati A, **Pellegrino I**, Negri A, Ghia D, Fea G, Sacchi R, Nardi PA, Fasola M, Galeotti P, 2015. Complexity of biogeographic pattern in the endangered crayfish *Austropotamobius italicus* in northern Italy: molecular insights of conservation concern. Conservation Genetics DOI: 10.1007/s10592-015-0767-4.

3. **Pellegrino I**, Negri A, Boano G, Cucco M, Kristensen T, Pertoldi C, Randi E, Salek M, Mucci N, 2015. Evidence for strong genetic structure in European populations of the little owl *Athene noctua*. *Journal of Avian Biology*, 46: 462-475. DOI: 10.1111/jav.00679.
4. **Pellegrino I**, Negri A, Cucco M, Mucci N, Pavia M, Šálek M, Boano G, Randi E., 2014. Phylogeography and Pleistocene refugia of the little owl (*Athene noctua*) as inferred from mtDNA sequence data. *Ibis*, 156: 637-657.
5. Pertoldi C, **Pellegrino I**, Cucco M, Mucci N, Randi E, Terp Laursen J, Sunde P, Loeschcke V, Kristensen TN, 2012. Genetic consequences of population decline in the Danish population of the little owl (*Athene noctua*). *Evolutionary Ecology Research*, 14: 921-932.

#### **AWARDS**

1. Best naturalist of the years (ANP, Associazione Naturalistica Piemontese)

#### **FURTHER INFORMATION**