

NADIA PIERETTI CURRICULUM VITAE

Actual position

Sept 2018 – present **Adjunct Professor** at the Polytechnic University of Marche, Italy. Title of the course: “Conservation of nature and management of protected areas”.

Education and training

November 2008 - October 2011: **PhD student** at the Faculty of Environmental Sciences, University of Urbino “Carlo Bo”, Italy. Topic of the research: “Implementation of advanced methodologies in avian soundscape analyses and their application to noisy environments”. Supervisor: Prof. Almo Farina.

October 2011 – February 2011: Research period at the Communication and Social Behavior Group, **Max Planck Institute for Ornithology**, Germany. Main activities and responsibilities: Bioacoustical analysis on blackbird (*Turdus merula*) songs: effect of neighbors and noise impact. Supervisor: Dr. Henrik Brumm

October 2008: **MSc in Environmental Sciences** (curriculum Analysis and Management of Natural Environments) with 110 (Honours) marks out of 110. Graduation Thesis: “Elaborating a new methodology for the analysis of avian soundscape: a case study from Cerreto Laghi”, at the University of Urbino “Carlo Bo”, Italy

October 2006: **BSc in Natural Sciences** (curriculum Conservation of Nature and its Resources) with 110 (Honours) marks out of 110. Graduation Thesis in: “A methodological approach for the evaluation of roads ecological impact” at the University of Urbino “Carlo Bo”.

July 2001: **Diploma as Accountant and Bookkeeper** with the result of 100/100. Trade High School “Albert Einstein”, Loreto (An), Italy.

Work experience

Feb, 2018 – Jul, 2018 **Term contract** at the Dept. Life and Environmental Sciences, Polytechnic University of Marche, Italy. Topic of the project: “Acoustic analysis at the SIN Bagnoli-Caroglio”

Nov, 2015 – Aug, 2016 **Research fellowship** at the University of Urbino “Carlo Bo”, Italy, granted by “L'Oréal-UNESCO for Women in Science 2015”. Topic of the project: “Investigation of traffic noise impact on bird communities of protected areas: application of principles and techniques from the Soundscape Ecology”

Nov, 2011 – Oct, 2015 **Research fellow** at the University of Urbino “Carlo Bo”, Italy. Topic of the research: “Implementation and corroboration of new methodologies for Soundscape’s multi-frequential analysis” - SSD: Ecology - BIO/07

Apr – May, 2006: **Environmental Educator**, at the “Confluenze” Association, Senigallia (AN), Italy. Main activities and responsibilities: Natural Excursion Guide, Environmental and naturalistic didactics activity

May – July, 2005: **Faunal census operator** at the “Monte Conero” Natural Park (An), Italy. Main activities and responsibilities: census and monitoring of birds communities in the “Monte Conero” Natural Park

Oct, 2004 – May, 2005: **Traineeship** at the “Monte Conero” Natural Park (An), Italy. Main activities and responsibilities: monitoring of an avian community in a local wet land.

Nov – Dec, 2004: **Faunal census operator** at the “Monte Conero” Natural Park (An), Italy. Main activities and responsibilities: census and monitoring of brown here in the “Monte Conero” Natural Park.

February, 2000: 3-weeks traineeship, **Leonardo Project**, EU financed programs. Main activities and responsibilities: English language learning. English school attendance and 2working weeks in London Derry, Ireland.

Personal skills and competences

Mother tongue(s) Italian

Other language(s)*

		Understanding		Speaking				Writing	
		Listening	Reading	Spoken interaction		Spoken production			
English	C1	Advanced User	C1 Advanced User	B2	Independent User	B2	Independent User	B2	Independent User
French	B1	Independent User	B1 Independent User	A2	Basic User	A2	Basic User	A2	Basic User

Basic Spanish

(*) Common European Framework of Reference for Languages

Computer skills and competences:

- Competent with Microsoft Office software.
- Basic user of ArcGIS 3.2, Arc View 3.2, SPSS.
- Competent with programs for sound analysis (Avisoft v4.40, Songscope v.2.1, CoolEdit Pro 2.1, Wavesurfer 1.8.5, SoundscapeMeter, Adobe Audition), statistics and geostatistics (Surfer, Golden Software) (Statistica, StatSoft Inc).
- Basic user of Adobe Illustrator CS4, Photoshop, Corel Draw X5 and Corel Photo Paint X5

Tutoring and teaching

1. Co-supervisor of the Bachelor Thesis of Francesco Gasparoni entitled “Il paesaggio sonoro come strumento per la valutazione dell’impatto del rumore generato dal traffico sulle comunità ornitiche”

- (2011).
2. Co-supervisor of the Bachelor Thesis of Simone Balestrieri entitled "Gli effetti delle infrastrutture viarie sull'attività acustica degli uccelli: il caso studio del Furlo".
 3. Co-supervisor of the Bachelor Thesis of Paola Gioa entitled "Relazioni ecologiche tra paesaggio geografico e paesaggio sonoro lungo un ecotone montano: un caso studio nella lunigiana orientale". (2102)
 4. Co-supervisor of the Bachelor Thesis of Luca Tarsi entitled "Il paesaggio sonoro in una macchia mediterranea" (2012).
 5. Co-supervisor of the Master Thesis of Sara Gonçalves Santos, Universidade Federal de Minas Gerais (UFMG), Brazil. "The sounds of the suburbs: investigações sobre a biofonia e a antropofonia em uma mata urbana".
 6. Co-supervisor of the PhD Thesis of Marina Duarte, Universidade Federal de Minas Gerais (UFMG), Brazil (2012-2015) entitled "Mineração, poluição sonora e impactos na comunicação animal"
 7. Co-supervisor of the Master Thesis of Valeria Montanari: "Valutazione delle dinamiche ambientali in un ambiente di macchia mediterranea attraverso metodologie di eco-acustica". Urbino, February 2014.
 8. Teaching experience – Teaching support for the course "Ecology and GIS Applications - Ecology Module", SSD BIO/07, in the Bachelor's Degree in Geology and Land Management (L- 34) for the academic year 2015-2016 at the School of Geological and Environmental Sciences, University of Urbino, Italy. Graduate Course Taught: Landscape Ecology (hours of teaching: 10).

Certificates, congresses and courses attended

1. May 1999: Loreto, Italy. "PET Certificate", with the result of "Pass with merit"
2. May 2007: Riccione, Italy. Attendance at the course titled "Biology and Conservation of sea-turtles".
3. May 2008: Pesaro, Italy. Attendance at the Congress "The fluvial environment of the Pesaro-Urbino province from Marecchia to Cesano"
4. May 2008: Bari, Italy. Attendance at the SIEP Congress, Società Italiana per l'Ecologia del Paesaggio.
5. August, 2008: Oslo, Norway. Attendance at the 33IGC, International Geological Congress.
6. October 2009: Urbino, Italy. Attendance at the "Course of Advanced Statistics for Geological, Natural, Biological and Environmental Sciences. University of Urbino.
7. March - April 2010: Cervia, Italy. Attendance at the course "Census of water birds" organized by Asoer (Associazione Ornitologi dell'Emilia-Romagna ONLUS).
8. July 16-18, 2010. European Conference on Behavioural Biology – Ferrara, Italy.
9. October 2011: UNISCAPE's General Assembly at the Congress Center Het Pand - University of Ghent (Belgium).
10. September 22 – 25, 2011. XVI Convegno Italiano di Ornitologia, Cervia - Milano Marittima, Italy.
11. June 2012. Third Careggi Seminar "The role of soundscapes in a biocultural perspective" made by UNISCAPE, Florence, Italy.
12. July 2012. "1st Global Sustainable Soundscapes Network Workshop" in Baraboo, Wisconsin.
13. September 2012: Oxford, UK. Attendance at the Biodiversity Technologies Symposium.
14. September 2013: XXIII Congresso della Società Italiana di Ecologia, Ancona, Italy.
15. June 2014 – "Ecology and acoustics: emergent properties from community to landscape", Paris.
16. December 2014 – DEVOTES Annual Meeting, Ancona, Italy.
17. September 2015 - International Bioacoustics Council (IBAC) - Murnau, Germany.
18. December 2015 – International Symposium "Underwater silence world: the end of the dogma" Paris.
19. June 2016 - Attendance at the course "Introduction to R Programming" – University of Milan-Bicocca, Italy.

Oral presentations:

1. March 9, 2010. Seminar held at the Informatics Faculty - University of Urbino, Italy. Title: "Bird Acoustic Complexity Index: indagare l'attività canora di comunità di uccelli".
2. November 9, 2010. Seminar held at the Max Planck Institute for Ornithology, Seewiesen, Germany. "The Acoustic Complexity Index: Measuring avian community dynamics".
3. July 28, 2011. Seminar held at the University of Urbino, Italy. Title: "I paesaggi sonori: una nuova dimensione per monitorare la biodiversità nelle aree protette".
4. February 17, 2012. Seminar held at the Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil. Title: "The Acoustic Complexity Index as a proxy for avian soundscape analyses".
5. February 19, 2012. Seminar held at the Pontifícia Universidade do Rio Grande do Sul (PUCRS), Porto Alegre, Brazil. "The Acoustic Complexity Index: a new proxy for investigations in avian research".
6. June 14, 2012. Invited speaker at the 3rd Careggi Seminar "The role of soundscapes in a biocultural perspective" made by UNISCAPE, Florence, Italy. Title of the talk: "Innovative approaches in avian soundscape analyses".
7. July 22-26, 2012. Invited speaker at the 1st Global Sustainable Soundscapes Network Workshop, Baraboo, Wisconsin. Title of the talk: "The ACI tool and the SoundscapeMeter plug-in".
8. July 29-30, 2013. Seminar held at the Istituto per l'ambiente marino costiero (IAMC), Capo Granitola, Italy. Title: "Metodologie d'indagine dei Soundscapes terrestri e loro innovative applicazioni in ambienti marini".
9. March 25, 2013. Seminar held at the "Università politecnica delle Marche, Ancona, Italy. Title: "Soundscapes, Marine Biodiversity and Anthropogenic Noise".
10. April 14, 2014 – Seminar held at the High School in Science, Fano, Italy "Soundscape Ecology: leggere le dinamiche ambientali tramite l'ascolto dei suoni".
11. June 17, 2014. Talk at the Congress "Ecology and acoustics: emergent properties from community to landscape", Paris. Title of the talk: "Effects of diverse sampling intensity in soundscape studies on tropical ecosystems".
12. December 4, 2014. Talk at the DEVOTES Annual Meeting, Ancona, Italy. Title of the talk: "Biological circadian rhythms and noise disturbance in marine soundscapes: a case study in the Central Adriatic Sea".
13. March 2015 - Seminar held at the Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil. Title: "New methodologies in avian sounds analyses and their application to noisy environments."
14. September 7-12, 2015 - International Bioacoustics Council (IBAC) - Murnau, Germany. Title of the talk: "Application of a recently introduced acoustic index in marine soundscapes of a shallow water coast (Lampedusa Island, Italy)"
15. December 17, 2015 – International Symposium "Underwater silence world: the end of the dogma" Paris. Title of the talk: "From terrestrial to marine soundscapes".
16. October 18, 2016. Seminar held at the symposium "Sounds and the city" - Torino, Italy. Title of the talk: "Avifauna e urbanizzazione: come gli uccelli rispondono al rumore antropico."

Abstracts:

1. Pieretti N., Malavasi R., Farina A. - "Elaborating a new methodology for avian soundscape analysis". 9th Gathering in Biosemiotics. Prague, 30 June- 5 July 2009.
2. Farina A., Morri D., Malavasi R., Pieretti N. - "Visualizing Bird Songs Across Landscapes". Coupling Humans and complex Ecological Landscapes 2009 US-IALE Symposium. Snowbird (Utah), April 12-16 2009.
3. Farina A., Morri D., Malavasi R., Pieretti N., Napolitano B. - "Intercepting resources: a study on the Robin's (Erithacus rubecula) cognitive landscape". 5th Ecology and Behaviour Meeting - Lyon, 6-10 April 2009.
4. Pieretti N., Malavasi R., Farina A. - "Elaborating a new methodology for avian soundscape analysis". 5th Ecology and Behaviour Meeting - Lyon, 6-10 April 2009.
5. Pieretti N., Malavasi R., Farina A. - "Exploring the eco-field hypothesis: the cognition of birds during the

- foraging activity". 5th Ecology and Behaviour Meeting - Lyon, 6-10 April 2009.
6. Pieretti N., and Farina A. - "Analysing the singing behaviour of an avian community: the Bird Acoustic Complexity Index (BACI)". European Conference on Behavioural Biology – Ferrara, July 16-18, 2010.
 7. Farina A., Pieretti N., Malavasi R. - "Soundtope: The acoustic Consortium of bird communities" - 11th Gathering in Biosemiotics – New York City 2011
 8. Pieretti N., Farina A. - "Bird song and airplane noise: the soundscape approach" XVI Convegno Italiano di Ornitologia - Cervia - Milano Marittima (RA) September, 22 - 25 2011.
 9. Morelli F., Benedetti Y., Pieretti N., Farina A. - "Uccelli nella città di Urbino, il ruolo degli spazi costruiti." XVI Convegno Italiano di Ornitologia, Cervia - Milano Marittima, Italy. September 22 – 25, 2011.
 10. Duarte, M.H.L., Farina, A., Rodrigues, M., Sousa-Lima, R.S., Young, R.J., Pieretti, N. "Soundscape monitoring: which is the best sampling period in tropical areas?" XXIV International Bioacoustics Congress, Pirenópolis, Goiás, Brazil. September 8-13, 2013.
 11. Pieretti, N., Farina, A. "Monitoring soundscape dynamics via the use of a recently developed routine". XXIV International Bioacoustics Congress, Pirenópolis, Goiás, Brazil. September 8-13, 2013.
 12. Pieretti N., Farina A. "Hearing the ecology: a remote sensing approach to monitor wildlife". XXIII Congresso della Società Italiana di Ecologia, Ancona, Italy. September 16-18, 2013.
 13. Farina A., Pieretti N. "The soundscape analysis of a mediterranean maqui: sonic environment and structure of vegetation". XXIII Congresso della Società Italiana di Ecologia, Ancona, Italy. September 16-18, 2013.
 14. Pieretti N., Farina A. – "The Acoustic Complexity Index and the soundscape approach". Biodiversity Technologies Symposium, Oxford, UK. September 27-28, 2012.
 15. Buscaino, G., Ceraulo, M., Farina, A., Pieretti, N., Maccarrone, V., Filiciotto, F., Mazzola, S. – "The soundscape of the shallow water of a Mediterranean Marine Reserve: the case of Capo Grecale in Lampedusa island." Ecology and acoustics: emergent properties from community to landscape, Parigi – 16-18 June 2014
 16. Mueller, S., Farina, A., Pieretti, N., Scherer-Lorenzen, M. - "BEsound, a new project proposed to study the relationships between land use intensity, organismic diversity and acoustic complexity." Ecology and acoustics: emergent properties from community to landscape, Parigi – 16-18 June 2014
 17. Duarte, M.H.L., Sousa-Lima, R.S., Young R., Farina, A., Rodrigues, M. Scarpelli, M., Kaizer, M., and Pieretti, N. - "Mining noise effects on Atlantic forest soundscapes." Ecology and acoustics: emergent properties from community to landscape, Parigi – 16-18 Giugno 2014
 18. Scarpelli, M., Duarte, M., Sousa-Lima, R., Costa, L., Pieretti, N., Young, R., Farina, A., Rodrigues, M. – "Strings, Woodwinds, Brass, and Percussions: What are the divisions in the Brazilian Cerrado Symphony Orchestra?" Ecology and acoustics: emergent properties from community to landscape, Parigi – 16-18 June 2014
 19. Farina, A., Pieretti, N. - "Challenges and Perspectives in Soundscape Ecology Research." Ecology and acoustics: emergent properties from community to landscape, Parigi – 16-18 June 2014
 20. Pieretti, N., Duarte, M., Sousa-Lima, R., Rodrigues, M., Young, R., Farina, A. – "Effects of diverse sampling intensity in soundscape studies on tropical ecosystems." Ecology and acoustics: emergent properties from community to landscape, Parigi – 16-18 June 2014
 21. Pieretti, N., Lo Martire, M., Farina, A., Danovaro, R. - "Biological circadian rhythms and noise disturbance in marine soundscapes: a case study in the Central Adriatic Sea." DEVOTES Annual Meeting, Ancona – 2-5 December 2014
 22. Ceraulo M., Corrias V., Farina A., Di Stefano V., Filiciotto F., Maccarrone V., Pieretti N., Buscaino G. - "Preliminary study of the soundscape in the marine protected area of Lampedusa Island: circadian acoustic behaviour in fish and shrimps." 75° Congresso Nazionale dell'Unione Zoologica Italiana, Bari, Italy, 22-25 September 2014.
 23. Pieretti N., Ceraulo, m., Mazzola, S., Filiciotto, F., Maccarrone, V., Farina, A., Buscaino, G. – "Application of a recently introduced acoustic index in marine soundscapes of a shallow water coast (Lampedusa Island, Italy)" - International Bioacoustics Council (IBAC) September, 7-12 2015 - Murnau, Germany.
 24. Pieretti N. – From terrestrial to marine soundscapes – International Symposium "Underwater silence world: the end of the dogma" December 2015, Paris.
 25. Pieretti N., Lo Martire M., Farina A., Danovaro R.- Sounds for the marine environmental monitoring: a

soundscape glimpse into a rocky bottom site of the Adriatic Sea, Italy - DEVOTES annual meeting, 1-4 December 2015, Lisbon.

Publications:

1. Farina A., Malavasi R., Pieretti N. (2010) "I paesaggi sonori degli uccelli / Birds' Soundscapes". **Nemeton** 4(9):128.
2. Pieretti N., A. Farina, D. Morri (2011) "A new methodology to infer the singing activity of an avian community: The Acoustic Complexity Index (ACI)". **Ecological Indicators** 11, pp 868–873.
3. Pijanowski B. C., Villanueva-Rivera L. J., Dumyahn S. L., Farina A., Krause B. L., Napoletano B. M., Gage S. H., Pieretti N. (2011) "Soundscape Ecology: The Science of Sound in the Landscape". **BioScience** 361, pp 203–216.
4. Farina A., Lattanzi E., Malavasi R., Pieretti N., Piccioli L. (2011) "Avian soundscapes and cognitive landscapes: theory, application and ecological perspectives". **Landscape Ecology** 26, pp 1257–1267.
5. Farina A., Pieretti N., Piccioli L. (2011) "The Soundscape Methodology for Long-term Bird Monitoring: A Mediterranean Europe Case-study". **Ecological Informatics** 6, pp 354–363.
6. Morelli F., Benedetti Y., Pieretti N., Farina A. - "Uccelli nella città di Urbino, il ruolo degli spazi costruiti." **Atti del XVI Convegno Italiano di Ornitologia**, Cervia - Milano Marittima, Italy. September 22 – 25, 2011.
7. Farina A., Pieretti N. (2012) "The soundscape ecology: A new frontier of landscape research and its application to islands and coastal systems". **Journal of Marine and Island Cultures** 1, pp 21–26.
8. Farina A., Lattanzi E., Piccioli L., Pieretti N. (2012). **SoundscapeMeter Bioacoustic software: version 1.0 beta – User Manual**
<http://www.disbef.uniurb.it/biomia/soundscape-meter/files/SoundscapeMeter.1.0.14.05.2012.pdf>
9. Pieretti N., Farina A. (2012) Innovative approaches in avian soundscape analyses. 2nd Quaderni di Careggi
10. Pieretti N., Farina A. (2013) "Application of a recently introduced index for acoustic complexity to an avian soundscape with traffic noise". **Journal of the Acoustical Society of America** 134 (1), pp. 891-900.
11. Nemeth E., Pieretti N., Zoellinger S. A., Geberzahn N., Partecke J., Miranda A. C., Brumm H. (2013). "Bird song and anthropogenic noise: Vocal constraints may explain why birds sing higher-frequency songs in cities". **Proceedings of the Royal Society B** 280, pp 1-7.
12. Farina A., Pieretti N., Morganti N. (2013) "Acoustic patterns of an invasive species: the Red-billed Leiothrix (*Leiothrix lutea* Scopoli 1786) in a Mediterranean shrubland". **Bioacoustics** 22 (3), pp. 175-194.
13. Farina, A., Buscaino, G., Ceraulo, M. & Pieretti, N. (2014). The Soundscape approach for the assessment and conservation of Mediterranean landscapes: Principles and case studies. **Journal of Landscape Ecology**, 7, pp 10–22.
14. Farina, A., James, P., Bobryk, C., Pieretti, N., Lattanzi, E. & McWilliam, J. (2014). Low cost (audio) recording (LCR) for advancing soundscape ecology towards the conservation of sonic complexity and biodiversity in natural and urban landscapes. **Urban Ecosystems**
15. Farina, A. & Pieretti, N. (2014). Acoustic Codes in Action in a Soundscape Context. **Biosemiotics**, 7: pp 321–328.
16. Farina, A. & Pieretti, N. (2014). From Umwelt to Soundtope: An Epistemological Essay on Cognitive Ecology. **Biosemiotics**, 7, pp 1–10.
17. Farina, A. & Pieretti, N. (2014). Sonic environment and vegetation structure: A methodological approach for a soundscape analysis of a Mediterranean maqui. **Ecological Informatics**, 21, pp 120–132.
18. Farina, A., Pieretti, N. & Malavasi, R. (2014). Patterns and dynamics of (bird) soundscapes: A biosemiotic interpretation. **Semiotica**, 198, pp 241–255.
19. Sueur, J., Farina, A., Gasc, A., Pieretti, N. & Pavoine, S. (2014). Acoustic indices for biodiversity assessment and landscape investigation. **Acta Acustica united with Acustica**, 100, pp 772–781.

20. Pieretti, N., Duarte, M.H.L., Rodrigues, M., Sousa-Lima, R.S., Young, R.J. & Farina, A. (2015) Determining sampling schemes for passive acoustic studies in different tropical ecosystems. **Tropical Conservation Science**, Vol.8 (1), pp 215-234.
21. Farina, A., Ceraulo, M., Bobryk, C., Pieretti, N., Quinci, E., Lattanzi, E. (2015) Spatial and temporal variation of bird dawn choruses in a Mediterranean landscape. **Bioacoustics** 24 (3), pp 269-288.
22. Duarte, M.H.L., Sousa-Lima, R.S., Young R.J., Farina, A., Vasconcelos, M., Rodrigues, M., Pieretti, N. (2015) The impact of noise from opencast mining on Atlantic forest biophony. **Biological Conservation**, 191, pp 623-631.
23. Farina, A., Pieretti, N., Salutari, P., Tognari, E., Lombardi, A. (2016) The Application of the Acoustic Complexity Indices (ACI) to Ecoacoustic Event Detection and Identification (EEDI) Modeling. **Biosemiotics**, pp 1-20. DOI 10.1007/s12304-016-9266-3.
24. Buscaino G., Ceraulo M., Pieretti N., Farina A., Corrias V., Filiciotto F., Maccarrone V., Grammauta R., Mazzola S. (2016). Temporal patterns in the soundscape of the shallow waters of a Mediterranean Marine Protected Area and identification of its primary biophonic, geophonic and anthropophonic components. **Scientific Reports**, 6, 34230; doi: 10.1038/srep34230.
25. Frontalini F., Curzi D., Cesarini E., Canonico B., Giordano F.M., De Matteis R., Bernhard, J. M., Pieretti, N., Gu, B., Eskelsen, J. R., Jubb, A. M., Zhao, L., Pierce, E. M., Gobbi, P., Papa, S., Coccioni, R. (2016) Mercury-Pollution Induction of Intracellular Lipid Accumulation and Lysosomal Compartment Amplification in the Benthic Foraminifer *Ammonia parkinsoniana*. **PLoS ONE** 11(9): e0162401. doi:10.1371/journal.pone.0162401
26. Pieretti, N., Lo Martire, M., Farina, A., Danovaro, R. (2017) Marine Soundscape as an additional biodiversity monitoring tool: a case study from the Adriatic Sea (Mediterranean Sea). **Ecological Indicators**, 83, pp 13–20.
27. Farina, A., Pieretti, N. (2017). Biodiversity Assessment in Temperate Biomes using Ecoacoustics. In "Ecoacoustics: the ecological role of sounds" Eds: Almo F., Stuart G., pp109-122

Awards, grants, scholarships

1. February 2000: 3-weeks traineeship, Leonardo Project, EU financed programs.
2. Invited speaker at the 3rd Careggi Seminar "The role of soundscapes in a biocultural perspective" made by UNISCAPE, Florence, Italy. June 14, 2012.
3. Invited speaker at the "1st Global Sustainable Soundscapes Network Workshop" in Baraboo, Wisconsin (USA). July 22-26, 2012.
4. Invited consultant at the Universidade Federal de Minas Gerais (UFMG), Brazil. Belo Horizonte. March 2-9, 2013.
5. Invited speaker at the Istituto per l'ambiente marino costiero (IAMC), Capo Granitola, Italy. July 29-30, 2013.
6. Best presentation Award. December, 2-5 2014 – DEVOTES Annual Meeting, Ancona, Italy
7. Winner of the national fellowship "L'Oréal-UNESCO for Women in Science 2015". Milano - May 18, 2015. The L'Oréal Italia Fellowships For Women in Science are awards offered by a partnership between L'Oréal Italia and the Italian National Commission for UNESCO. Five Fellowships are awarded annually to outstanding female postdoctoral researchers to support a 10-month period of postdoctoral research in any area of the life, physical sciences, mathematics and engineering.
8. Invited speaker at the International Symposium "Underwater silence world: the end of the dogma" December 2015, Aquarium de La Porte Doreé, Paris.
9. Invited speaker at the International Symposium "Sounds and the city" - Torino, Italy. October 18, 2016.

Organization of congresses

1. Member of the organizing committee of the Congress entitled "Ecology and acoustics: emergent properties from community to landscape". Paris, Museum national d'Histoire naturelle, June 16-18, 2014.

Invited Reviewer for scientific journals and books

Ecological Indicators, Ecology and Evolution, Landscape and Urban Planning, Methods in Ecology and Evolution, Scientific Reports, The Natural Areas Journal, Frontiers in Ecology and the Environment, Interdisciplinary Sciences-Computational Life Sciences, Yale University Press (book), Journal of Ecoacoustics, Conservation Biology, Freshwater Biology, PeerJ.

Current Research

Natural sounds are intrinsic elements of ecosystems, and are essential for a number of ecological functions. Consequently, the study of the animal soundscape represents a field of growing interest because of the implications it has for the assessment of human–landscape interactions.

Particularly in recent decades, numerous natural acoustic environments have been affected by the intensification of human mechanical noise. The impact of noise can potentially produce significant effects on animal communities, such as weaken identification of sounds of prey and/or predators, sleep disturbances, hearing loss from acoustic over-exposure, alteration of stress hormone levels, thus impeding the ideal fitness of individuals. Moreover, ambient noise represents one of the environmental factors exerting selection pressure on the acoustic signals of animals, since it inhibits the perception of the sounds masking animal sound vocal cues and, consequently, compromises the efficiency of their communication.

The principal topic of my research is to monitor animal acoustic dynamics as a proxy for understanding the well-being of animal communities (both terrestrial and marine), and also to investigate how these communities react (in singing activity, dislocation, selection of habitats) at the disturbance caused by noise, through the analysis of recordings taken in their living environments. My topic of research also involves the formulation, testing and validation of specific acoustic indices to ease the extraction of useful ecological information from vast sound surveys.

The simple passive listening to animal recordings is a recent technique, which offers a way of: evaluating differences between communities occupying different areas; monitoring changes over time; making available new representations of species balance; focusing on the relationships between animals and other external elements, such as anthropogenic noise intrusion.

Research Interests

Soundscape Ecology - Noise Pollution – Bioacoustics - Innovative technologies for sound analyses
Ecoacoustics - Behavioral processes of animal communities – Ornithology - Marine sounds

Applicant's Declaration

I declare that the information I have given is true and correct.

