



## UNIVERSITÀ DEGLI STUDI DI TORINO

### CURRICULUM VITAE OF MARCO GAMBA

THE UNDERSIGNED

Last name GAMBA \_\_\_\_\_ First name

MARCO \_\_\_\_\_

Tax code GMBMRC72C02L219M \_\_\_ born in TORINO \_\_\_\_\_ Prov. TO \_\_\_

on 02/03/1972 \_\_\_ resident in TORINO \_\_\_\_\_ Prov.

TO \_\_\_

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**aware of the penalties, in the case of untrue declarations and falsity in the acts, referred to in art. 76 of Presidential Decree 445/2000 and special laws on the subject**

#### **DECLARES**

the veracity of the curriculum vitae below:

1998. **University of Turin:** Degree in Biological Sciences with experimental thesis entitled "Development of vocalizations in *Varecia variegata variegata*".

1999. **Museo Civico di Storia Naturale di Verona:** research contract "Census of Lepidoptera Rhopalocera in northern Italy" (period 14/07/1999 - 15/10/1999).

1999. **E.N.GLM. Turin:** Post-Graduate Master and Professional Qualification in "Telematic Data Security Technician".

2000. **University of Turin:** Research contract "Description of the vocal repertoire in *Eulemur rubriventer*" (Contract for occasional autonomous work according to and for the effects of the rectoral decree N. 685 of 06.03.1991 and of the art. 2222 and following of the civil code; period 01/08/2000 - 31/12/2000).

2001. **University of Turin:** Research contract "Elaboration of methodologies for the identification and measurement of internal skeletal structures in skulls of Primates in relation to the posture in extreme environments" (Contract for occasional independent work according to and for the effects of the rectoral decree N. 685 of 06.03.1991 and of the art. 2222 and following of the civil code; period 01/01/2001 - 31/01/2001).

2001. **University of Turin:** Research contract "Methods for the reduction of incidental catches of *Caretta caretta* during longline fishing in pelagic areas" (Contract for occasional independent work according to and for the effects of the rectoral decree N. 685 of 06.03.1991 and of the art. 2222 and following of the civil code; period 01/02/2001 - 28/02/2001).



## UNIVERSITÀ DEGLI STUDI DI TORINO

2001-2002. **University of Turin:** Research grant "Description of the vocal repertoire in *Eulemur macaco* and *Eulemur macaco flavifrons*" (Public selection N. A06.053/01; period 01/03/2001 - 01/11/2002).

2004. **University of Sussex, Brighton, United Kingdom:** Marie Curie Fellowship (period 01/02/2004-01/05/2004).

2002-2005. **University of Turin:** PhD in "Evolutionary Biology and Biodiversity Conservation" (XVIII Cycle; period 01/11/2002 - 30/10/2005; degree awarded 31/01/2006). Thesis: "Evolution of vocal communication in Madagascar lemurs", sector BIO/05.

2005-2006. **University of Turin:** Research grant in "Fauna Biodiversity Conservation" (Public selection N. A06.089/IX\*; period 01/12/2005 - 30/11/2006).

2006-2007. **University of Turin:** Research grant in "Fauna Biodiversity Conservation" (Renewal Sel. N. A06.089/IX\*; period 01/12/2006 - 30/11/2007).

2007-2009. **University of Turin:** Research grant entitled Evolution of Acoustic Communication in Primates (Sel. N. A06.019/X; period 01/12/2007 - 31/03/2009).

2009-2011. **University of Turin:** Scholarship at the Department of Animal and Human Biology (Call No. 01.2009.DBAU; period 01/04/2009 - 31/03/2011).

2010. **University of the Comoros, Comoros Islands:** Lecturer for the course "Bioacoustic methods to evaluate biodiversity [Méthodes (bioacoustiques) d'évaluation de la biodiversité]" of the International Master of Sustainable Development and Biodiversity Conservation at the Faculty of Science and Technology of the University of the Comoros in Moroni, Union of the Comoros (period 12/03/2010 - 25/03/2010).

2010. **University of Mahajanga, Madagascar:** Contract Lecturer for the course "Bioacoustic methods to evaluate biodiversity [Méthodes (bioacoustiques) d'évaluation de la biodiversité]" of the International Master of Sustainable Development and Biodiversity Conservation at the Faculty of Science of the University of Mahajanga, Mahajanga, Madagascar (period 06/05/2010 - 19/05/2010).

2011. **University of Turin:** Scholarship at the Department of Arboreal Crops (Call for proposals Cod. Sel 1/11/BS; period 01/04/2011 - 21/12/2011).

2011. **University of Turin:** Winner of the ranking for a two-year Research Grant co-funded by MIUR with a score of 100/100 points (10/2011, not used).

2011-2014. **University of Turin:** Faculty Academic Researcher at the Department of Life Sciences and Systems Biology (period 22/12/2011 - 21/12/2014).

2017. **National Scientific Qualification** Announcement D.D. 1532/2016, Sector 05/B1, Zoology and Anthropology, quarter: II. Valid from 28/03/2017 to 28/03/2023 (art. 16, paragraph 1, Law 240/10).

2014-2019. **University of Turin:** Faculty Confirmed Academic Researcher, Sector 05/B1 - scientific-disciplinary Sector BIO/05 at the Department of Life Sciences and Systems Biology (period 22/12/2014 - 23/12/2019).

2019-Present. **University of Turin:** Faculty Associate Professor, Sector 05/B1 - scientific-disciplinary Sector BIO/05 at the Department of Life Sciences and Systems Biology (period 23/12/2019 - present).



## UNIVERSITÀ DEGLI STUDI DI TORINO

2021-Present. **University of Turin:** President of the Master Degree Course "Evolution of Animal and Human Behavior".

2022. **National Scientific Qualification** Achievement of the National Scientific qualification as full full professor in the Italian higher education system, in the call 2021/2023 (Ministerial Decree n. 553/2021 and 589/2021) for the disciplinary field of 05/B1 - Zoology and anthropology. (Academic Recruitment Field 05/B - Animal biology and anthropology, according to the national classification). The validity of the qualification is nine years, starting from the 03/02/2022 and will expire on the 03/02/2031.

2022 – Present. **Fondazione Zoom:** Member of the Scientific Committee.

In particular declares the following activities:

-RESEARCH ACTIVITIES AND SCIENTIFIC PUBLICATIONS:

### Research activities

I am a Faculty Associate Professor at the Department of Life Sciences and Systems Biology. My long-standing interest in sounds and music led me from a young age to investigate topics related to Bioacoustics and Ecoacoustics. My scientific activity began in the late 1990s with a thesis on vocal communication in captive lemurs. This was followed by professional assignments at the Civic Museum of Natural History of Verona and the University of Turin and a postgraduate master in computer science. In those years, I worked on the morphology of the primate skull, the distribution of lepidopterans, the conservation of sea turtles and acoustic communication in amphibians. In 2001, I obtained my first Research Fellowship at the Department of Animal and Human Biology of the University of Turin, which focused on studying vocal repertoires in lemurs of Madagascar. In January 2006, I obtained my PhD in Evolutionary Biology and Biodiversity Conservation at the University of Turin.

A recurring theme in my research has been developing new methodologies for a quantitative approach to the study of animal vocalizations and behaviour, including the development of software for acoustic analysis and classical ethological analysis. For example, my research work in Madagascar investigated the vocal communication of numerous species and showed that their repertoires were much broader than previously thought. In 2004, funded by a Marie Curie Fellowship, I spent time at the University of Sussex, in the *Department of Experimental Psychology*. While at Brighton, I designed playback experiments targeting different animal species, used resynthesized vocalizations, and collaborated on innovative methods to classify acoustic signals. In more recent years, I have combined anatomical analysis of the vocal apparatus and acoustic analysis to create computational models of the vocal duct of non-human primates. This approach has allowed for the simulation of phonation resonance in the vocal tract. Currently, my work is focused on a few strands of research, all of which revolve around improving the understanding of phonatory abilities in primates.

Specifically, my lines of research have developed around:



## UNIVERSITÀ DEGLI STUDI DI TORINO

- (a) Animal communication skills from an interdisciplinary perspective;**
- (b) Comparative approach to the study of speech communication;**
- (c) Morphology and evolutionary phylogeny of primates;**
- (d) Quantitative study of behaviour;**
- (e) Biodiversity monitoring and sustainable development;**
- (f) Evolution of multimodal communication.**

### **(a) Primate communication skills from an interdisciplinary perspective.**

A series of collaborations with colleagues from other universities has been set up to create an interdisciplinary forum for exchange and comparison on topics related to evolution and language. The creation of this forum saw as privileged partners the colleagues of the Coordinamento dei Dottorati Italiani in Scienze Cognitive (CODISCO), in particular Prof. Antonino Pennisi (University of Messina), and of the Scuola di Alta Formazione in Filosofia Etica ed Etologia, in particular Prof. Marco Celentano (the University of Cassino and Lazio Meridionale), as well as colleagues that are working abroad such as Dr Adriano Lameira (University of Warwick, UK) and Dr Andrea Ravignani (Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands). In these networks, the University of Turin was absent for some time. These activities had as their main output the establishment of the journal *Reti Saperi Linguaggi - Italian Journal of Cognitive Sciences* (Edizioni il Mulino) and the construction of an interdisciplinary *network* culminating in the symposium '*Synchrony and Rhythm Interaction: From Neurons to Ecology*' at the Lorentz Center of Leiden University (2019). Participation in this symposium resulted in collaborations with Prof. Geraint Wiggins (Vrije Universiteit Brussel, Belgium), Dr Christopher Kello (UC Merced, USA), Prof. Masayo Soma (Hokkaido University, Sapporo, Japan), which then led to joint publications in *Philosophical Transactions of the Royal Society B*.

### **(b) Comparative approach to the study of vocal communication.**

The study of vocal communication through a comparative approach has been conducted in a multidisciplinary and innovative way. The development of a system of automatic analysis of vocalizations, in collaboration with Dr Olivier Friard, has allowed the establishment of several collaborations at the departmental level (Prof. Cristina Giacomini), at the university level (Prof. Antonio Romano, Laboratory of Experimental Phonetics "Arturo Genre" of Turin), at national level (Prof. Silvana Mattiello, University of Milan; Dr Cinzia Chiandetti, University of Trieste) and international level (Prof. David Reby, Equipe de Neuro-Ethologie Sensorielle, Université de St. Etienne, France; Dr Jordi Bonada, Universidad Pompeu Fabra, Barcelona, Spain; Prof. Serge Wich, John Moore University Liverpool, UK; Dr Adriano Lameira, University of Warwick, UK; Prof. Katie Slocombe, University of York, UK). The study of vocalizations was also continued with semi-automatic methods collaborating with colleagues from other institutions (Dr Luca Pozzi, University of Texas-San Antonio, USA; Prof. Peter Narins, UCLA, USA; Prof. Tecumseh Fitch, University of Vienna, Austria; Dr Andrea Ravignani, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands).

### **(c) Evolutionary morphology and phylogeny of primates.**

I was involved in the African Primate Initiative for Ecology and Speciation project funded by the South African National Science Foundation at the University of Fort Hare (working with Prof. Judith Masters and Dr Fabien Génin). The project focused on studying a number of African primate species, including guenons, vervets, baboons, and galagos. The studies were carried out in collaboration with



## UNIVERSITÀ DEGLI STUDI DI TORINO

colleagues from the Department of Life Sciences and Systems Biology (Prof. Cristina Giacoma and Dr Massimiliano Delpero) and several other Universities (Prof. Luca Sineo, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies, University of Palermo, Italy; Prof. José Braga, Paul Sabatier University, Toulouse, France; Dr Luca Pozzi, University of Texas San Antonio, USA; Sébastien Couette, EPHE, Laboratoire Paléobiodiversité et Evolution & UMR uB CNRS 6282, Université de Bourgogne, Dijon, France; Prof. Adrian Lister, Earth Sciences Department, The Natural History Museum, London, UK; Prof. Maarten de Wit, AEON, Nelson Mandela Metropolitan University, South Africa).

### **(d) Quantitative study of behaviour.**

The research dedicated to studying behaviour with quantitative methods has led to the development of the BORIS and BEHATRIX software conceived by Dr Olivier Friard and developed by me in collaboration. The software has allowed the implementation of numerous collaborations with colleagues from other Departments (Prof. Paola Molina, Department of Psychology), from other Italian Universities (Prof. Silvana Mattiello, University of Milan) and from abroad (Prof. Kim Bard, University of Southampton, UK; Prof. Marilyn Beauchaud, University of St. Etienne). Marilyn Beauchaud, Equipe de Neuro-Éthologie Sensorielle, Université de St. Etienne, France; Florence Levréro, Equipe de Neuro-Éthologie Sensorielle, Université de St. Etienne, France; Dr Achaz von Hardenberg, University of Chester, UK). The BORIS software article was published in May 2016 and has received **750** citations as of February 3<sup>rd</sup>, 2022 (scopus.com).

### **(e) Biodiversity monitoring and sustainable development.**

Biodiversity conservation cannot occur without careful monitoring of biodiversity with traditional and innovative techniques, carefully planned and sustainable development processes, and synergies shared by various actors. With this in mind, I have worked to develop two data collection protocols to study environmental acoustic profiles (*landscape acoustics*). Furthermore, having participated as a member of the Department of Life Sciences and Systems Biology at the EU-China Business & Technology Cooperation Fair IX "New Paths for Technology and Industry Cooperation Between EU and China" held from 21 to 23 October 2014, in Chengdu, China, I made on that occasion a generic collaboration agreement with some private partners for the development of new methodologies for monitoring acoustic biodiversity using drones. This experience gave an impetus to my interest in ecoacoustics in national (Gran Paradiso National Park, Noasca (TO); Salse di Nirano Nature Reserve, Modena) and international contexts (Maromizaha Dragon Tree Forest and Mitsinjo Reserve, in Madagascar; Mount Fanjing National Nature Reserve in the Wuling Range, Guizhou, China) in collaboration with Italian and foreign colleagues (Dr Livio Favaro, University of Turin, Italy; Dr Achaz von Hardenberg, University of Chester, UK; Prof. Peter Narins, UCLA, USA; Dr Chia L. Tan, LVDI International, USA; Dr Kefeng Niu, Institute of Eastern-Himalaya Biodiversity Research, Dali University, China).

### **(f) Evolution of multimodal communication.**

My interest in multimodality dates back a long time since we started developing the BORIS software with Olivier Friard (University of Torino). It was revived a couple of years ago when we shared ideas with colleagues from other Institutions about the new research frames we could develop about rhythmic patterns and multimodality (de Pouw W, Proksch S, Drijvers, L, Gamba M, Holler J, Kello C, Schaefer RS, Wiggins GA. Multilevel rhythms in multimodal communication, *Philosophical Transactions of the Royal Society B*, DOI: 10.1098/rstb.2020.0334, 2021). The move from studying



## UNIVERSITÀ DEGLI STUDI DI TORINO

acoustic signals to integrating acoustic, visual and chemical signals is challenging but fascinating, and I promptly developed new frames of investigations I am currently working on with my team. In primates, as an example, many displays are multimodal, meaning that they are composed of concomitant signals occurring in different sensory modalities. The same happens in many other species for particular displays (e.g., work on courtship displays). I initiated a collaboration with Dr Adriano Lameira (University of Warwick, UK) and Dr Andrea Ravignani (Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands) based on communicative and locomotion rhythms.

### **Research management experience and funding obtained as a *Principal Investigator (P.I.)* or unit manager.**

1. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2012, Project: "*Comparative and Innovative Approaches to Primate Vocal Communication*": 2525.47 Euros.
2. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2013, Project: "*Primate communication abilities*": 2893.96 Euros.
3. **University of Turin**, P.I. UNI.COO 2013, Project: "*Maromizaha conservation: a case of rural development sustainability and valorisation of biodiversity*": 3792.00 Euros.
4. **DRAGON-STAR Program**. Financial contribution after comparative evaluation DRAGON-STAR Program, funded by FP7, in support of Chinese participation in Horizon 2020, under *EU-China Scientific Cooperation Agreement* (2014). Project: "*Bioacoustic tools for biodiversity conservation*": 2500.00 Euros.
5. **National Research Foundation South Africa**. *Leader* of the research unit "*Acoustic Communication*" within the *African Primate Initiative for Ecology & Speciation (A.P.I.E.S.; 2012-2015)*, an international project funded by the National Research Foundation South Africa, in collaboration with University of Fort Hare, Nelson Mandela Metropolitan University, University of Burgundy (France), DPZ (Germany).
6. **Italian Union of Zoos and Aquaria**. P. I. of the Project "*Volohasy-Bambù*", fully funded by Unione Italiana Zoo e Acquari (2014-2017: 7004.00 Euros) for activities related to the reforestation of some key areas for biodiversity in Madagascar.
7. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2015: 2351.00 Euros.
8. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2016-17: 6511.98 Euros.
9. **Funding Fund for Basic Research Activities**. Recipient of 3000.00 Euros provided on a competitive basis following a national evaluation of academic researchers (2017-2020).
10. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2018: 4604.14 Euros.
11. **Conselho Nacional das Fundações Estaduais de Amparo à Pesquisa**. Scientific supervisor of the MOBILITY project of the Conselho Nacional das Fundações Estaduais de Amparo à Pesquisa



## UNIVERSITÀ DEGLI STUDI DI TORINO

(CONFAP) of Brazil. Project: *An unsupervised approach for comparing complex call repertoires: a case study of the evolution of acoustic communication in the New World Jays (Uma abordagem não-supervisada para a comparação de repertórios vocais complexos: um estudo de caso sobre a evolução da comunicação acústica nas gralhas do Novo Mundo)*.

12. **Call for proposals NEW GENERATIONS - Grad. B - With Children** - Project: "High Five! Community projects between north and south" (2017-GEN-00335; 2018-2019). Beneficiary: Lecchese Community Foundation. Marco Gamba is project *leader for the* University of Turin - Department of Life Sciences and Systems Biology for the unit "How invasive are we? Biomonitoring of native and invasive animal species and effect of anthropogenic impact": 18446.90 Euros.
13. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2019: 4111.71 Euros.
14. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2020: 3629.80 Euros.
15. **University of Turin**, Department of Life Sciences and Systems Biology, P.I. ex 60% 2021: 4777.62 Euros.
16. **Parco Nazionale Gran Paradiso**, P.I. 2021: 6000.00 Euros.

### Communications and invited speeches

1. **Université J. Fourier, Grenoble, France** - Invited Seminar: "*Evolution of vocal communication*" LECA UMR CNRS 5553; 04/03/2010.
2. **RIKEN Brain Science Institute, Tokyo, Japan** - Invited Seminar: "*Variation in primate vocalizations and primate songs: effects of species, sex, individuality and phonatory process*"; 09/09/2010.
3. **University of Messina and Consorzio Universitario Mediterraneo Orientale, Noto (SR), Italy** - Invited seminar: "*Vocal communication in primates: mechanisms, methods and study perspectives*"; 08/05/2012.
4. **University of Messina and Consorzio Universitario Mediterraneo Orientale, Noto (SR), Italy** - Invited Seminar: "*Singing in the rain! The strange case of indri and singing primates*"; 09/05/2012.
5. **Università di Cassino e del Lazio Meridionale, Pontecorvo (Fr), Italy** - Invited plenary communication: "*Techniques of recording and analysis of bioacoustic data in ethology*" at the Scuola di Alta Formazione in Filosofia e Etologia Umana; 29/11/2012.
6. **University of Messina and Consorzio Universitario Mediterraneo Orientale, Noto (SR), Italy** - Invited plenary communication: 7th CODISCO Conference "I linguaggi delle scienze cognitive - Le Scienze Cognitive in Italia. Balances and Perspectives", "*Human speech to primate vocalizations, and the way back*"; from 28/11/2013 to 30/11/2013.



## UNIVERSITÀ DEGLI STUDI DI TORINO

7. **V National Conference of Research in Parks "Man for animals"**, Bussolengo (VR), Italy - Invited plenary communication: "*The more, the merrier. Methodological approaches to the study of large sound databases*"; 11/10/2014.
8. **EUPIC European Enterprise Network West China - EU-China B&T Cooperation Fair IX, Chengdu**, Invited presentation of the project "*Bioacoustic tools for biodiversity conservation*"; from 20/10/2014 to 25/10/2014.
9. **EAZA 2015 Annual Conference, Wroclaw Zoo, Poland** - Invited communication at PROSIMIAN TAG: "*VOLOHASY Project: bamboo, lemurs and humans*"; 15/09/2015 to 19/09/2015.
10. **World Voice Day - World Voice Day 2016, Turin, Italy** - Invited plenary communication: "*The 'voices' of animals*"; 16/04/2016.
11. **5th Joint Meeting of the Acoustical Society of America and Acoustical Society of Japan, Honolulu, USA** - Invited communication, "*Melody in my head, melody in my genes? Acoustic similarity, individuality and genetic relatedness in the indris of Eastern Madagascar*"; 11/29/2016.
12. **Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands** - Invited plenary communication at the symposium 'Advancing Behavioral And Cognitive Understanding of Speech', "*The many faces of primate diversity and their significance for understanding human speech*"; 12/01/17.
13. **Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands** - Invited plenary communication at the public day 'Advancing Behavioral And Cognitive Understanding of Speech', "*Primate business and one hell of a song*"; 14/01/17.
14. **University of Texas at San Antonio, San Antonio, Texas, USA** - Invited Seminar: "*Song to song, the strange case of indri and the other singing primates*"; 10/04/2018.
15. **XXXI National Congress of the Italian Association of Psychology, Developmental and Educational Psychology Section, Turin**: *Invited speaker*, with Olivier Friard; 18/09/2018.
16. **University Medical Centre Groningen, Groningen, The Netherlands** - Invited plenary communication at the workshop 'Vocal Communication in Animals, Humans, and Robots (VoCoGro)', "*Acoustic cues to individual identity in the primate songs and calls*"; 29/10/18.
17. **177th Meeting of the Acoustical Society of America, Louisville, Kentucky, USA** - Invited communication: "*Song structure and sex-specific features in the indris*"; 17/05/2019.
18. **University of Leiden, Lorentz Center, The Netherlands** - Invited plenary communication at the workshop 'Synchrony and Rhythmic Interaction: From Neurons to Ecology', "*Observing and measuring interactive primate vocalizations*"; 29/07/19.
19. **X National Conference of Research in Parks** - Bussolengo (VR), Italy - Invited plenary communication: "*The Study Of Animal Choruses: Old Views And New Perspectives*"; 06/10/2019.
20. **University of Chester, Department of Biological Sciences, United Kingdom** - Invited Seminar, "*Variability And Acoustic Signals: A Multi-Level Approach In Primates*"; 12/02/20.





## UNIVERSITÀ DEGLI STUDI DI TORINO

21. **University of Pisa, Department of Biology, Italy** - Invited seminar for PhD students, "*An Exploration In Investigating Terrestrial Animal Sounds*"; 11/01/21.
22. **University of Portsmouth, Department of Psychology, Centre for Comparative & Evolutionary Psychology, UK** - Invited Seminar, "*Behavioral Analysis with BORIS*" (with Olivier Friard); 21/04/20.
23. **School of Human-Animal Interaction, Italy** - Invited Lecture, "*The Study of Instinct*"; 12/06/21.
24. **University of Turin, Dante700 - Celebrations for the seven hundredth anniversary of Dante's death, Torino, Italy** - Invited Seminar, "*Oltre al "cattivo coro": tra le bestie ignote a Dante c'è chi si cimenta in canto!*"; 08/09/21.
25. **Institute of Behavioural Physiology, Research Institute for Farm Animal Biology, Dummerstorf, Germany** - Invited Online Seminar, "*Applying Ethology*" (with Olivier Friard); 20/09/21.
26. **Société Francophone de Primatologie, St. Etienne, France** – Invited Plenary Lecture, "*Songs, cries, and lessons learned in more than 15 years of studying the indris of Madagascar*"; 20/10/21.
27. **Animal FACS Workshop** – Invited Online Lecture, "*Coding Behavior with BORIS, Winking at Facial Expression Research* (with Olivier Friard); 20/10/21.
28. **University of Vienna, Wilhelminenberg Seminar Series, Austria** – Invited Lecture (*moved online because of the COVID-19 Emergency*), "*Eavesdropping the indris' sounds to discover about life on the high trees*"; 19/01/22 .
29. **RSN Ricerche E Studi Naturalistici Biosphaera S.C.S., Vicenza, Italia** - Invited Online Seminar, "*Ecoacoustics - A Tiny Little Crash Course*"; 21/01/22.
30. **CNRS Lyon, Institute of Cognitive Science, France** - Invited Online Seminar, "*Behavioral Analysis with BORIS*" (with Olivier Friard); 31/01/22.
31. **Associazione Italiana Guardiani di Zoo, VI Assemblea dei Soci A.I.G. Zoo, Torino, Italy** - Invited Talk, "*Zoo On A Mission*"; 18/02/22.
32. **"Incontri Di Filosofia Ed Etologia"** organizzati da Associazione Studi Fortini Masi; Agenzia Regionale per la Protezione Ambientale (ARPA); Post-Graduate School of Philosophy, Ethics, and Ethology; Res viva Centro Interuniversitario di Ricerche Epistemologiche e Storiche sulle Scienze del Vivente, Terni, Italy - Invited Talk, "*Alle origini del ritmo: linguaggio e musica alla luce degli studi sul mondo animale*", 11/05/22.
33. **Università degli Studi di Messina, DE MUSICA, Giornata di studio interdisciplinare, Messina, Italy** - Invited Talk, "*Ritmi paralleli: la musicalità senza umanità*"; 27/05/22.

### Selection of participations as a speaker at international congresses and events



## UNIVERSITÀ DEGLI STUDI DI TORINO

- 1996, October 24-26, Pavia, Italy: **XV International Bioacoustics Council.**
- 1999, March 24-27, St. Andrews, Scotland: **International Biological Acoustics Workshop.**
- 1999, September 7-11, Basel, Switzerland: **19th EAZA Conference, European Association of Zoos and Aquaria.**
- 2000, November 27-29, London, England: **European Federation of Primatology Meeting 2000**, designated and financially assisted by the EC as a High-Level Scientific Conference, and hosted by the Primate Society of Great Britain.
- 2001, August 22-29, Tuebingen, Germany: **XXVII International Ethological Conference.**
- 2001, September 3-6, Cogne, Italy: **XVIII International Bioacoustics Council.**
- 2004, August 22-28, Turin, Italy: **XX Congress of the International Primatological Society.**
- 2005, October 29-31, Florence, Italy: **MAVEBA 2005, 4th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications.**
- 2006, July 12-14, Tokyo, Japan: **International Conference on Voice Physiology and Biomechanics, ICVPB 2006.**
- 2007, July 15-19, Ithala, South Africa: **International Congress Prosimians 2007.**
- 2007, December 13-15, Florence, Italy: **MAVEBA 2007, 5th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications.**
- 2008, July 31-August 2, St. Andrews, Scotland: **Vocal communication in birds and mammals.**
- 2008, August 3-8, Edinburgh, Scotland: **XXII Congress of the International Primatological Society.**
- 2009, August 24-29, Turin, Italy: **12th Congress of the European Society for Evolutionary Biology, ESEB 2009.**
- 2010, February 26, Queen Mary University of London, London, UK: **Integrating Genetic and Cultural Approaches to Language - CEE 2010 Symposium.**
- 2010, April 14-17, Utrecht, The Netherlands: **8th International conference on the Evolution of Language, Evolang8.**
- 2010, September 12-18, Kyoto, Japan: **XXIII Congress of the International Primatological Society.**
- 2012, August 12-18, Cancun, Mexico: **XXIV Congress of the International Primatological Society.**
- 2014, April 14-17, Vienna, Austria: **EVOLANG X The Evolution of Language: the 10th international conference.**
- 2014, August 11-16, Hanoi, Vietnam: **XXV Congress of the International Primatological Society.**
- 2015, August 25-28, Rome, Italy: **6th European Federation for Primatology Meeting.**



## UNIVERSITÀ DEGLI STUDI DI TORINO

- 2016, July 12-15, Vienna, Austria: **8th European Conference on Behavioural Biology (ECBB2016)**.
- 2017, September 18-23, Turin, Italy: Second Joint Meeting of **Société Zoologique de France** and **Unione Zoologica Italiana**.
- 2018, August 9-12, Liverpool, UK: **9th European Conference on Behavioural Biology (ECBB2018)**.
- 2018, April 16-19, Torun, Poland: **EVOLANG XII The Evolution of Language: the 12th international conference**.
- 2019, August 29-30, London, UK: **VIHAR 2019 2nd International Workshop on Vocal Interactivity in-and-between Humans, Animals and Robots**.
- 2019, August 31 - September 6, Brighton, UK: **IBAC 2019 XXVII International Bioacoustics Council**.
- 2020, November 3 - 6, South Africa: **African Bioacoustics Congress** (*Moved online because of the COVID-19 Emergency*)
- 2021, June 23 - 25, Italy: **Ecoacoustics Congress** (*Moved online because of the COVID-19 Emergency*)

### Participations as speaker in national congresses

- 1997, April 16-19, Turin: XII Congress of the **Italian Primatological Association**.
- 1998, September 17-19, Pavia: XIII Congress of the **Italian Primatological Association**.
- 2000, October 9-11, Calci (Pisa): XIV Congress of the **Italian Primatological Association**.
- 2002, May 30 - June 1, Rome: XV Congress of the **Italian Primatological Association**.
- 2002, September 17-20, Turin and Alessandria: XX Congress of the **Italian Society of Ethology**.
- 2003, October 28-30, Radicondoli (Siena): XVI Congress of the **Italian Primatological Association**.
- 2005, May 16-18, Palermo: XVII Congress of the **Italian Primatological Association**.
- 2007, May 16-18, Calci (Pisa): XVIII Congress of the **Italian Primatological Association**.
- 2008, October 2 - 4, Bussolengo (Verona): **1st National Conference on Research in Parks, Objectives and Strategies**.
- 2009, April 1-3, Asti: XIX Congress of the **Italian Primatological Association**.



## UNIVERSITÀ DEGLI STUDI DI TORINO

- 2009, October 4 - 6, Bussolengo (Verona): 2nd **National Conference on Research in Parks, Knowledge and Well-being.**
- 2011, September 5-8, Bologna: 72nd Congress of the **Italian Zoological Union.**
- 2011, September 21-24, Turin and Asti: XIX Congress of the **Italian Anthropological Association.**
- 2011, April 10-13, Bussolengo (Verona): XX Congress of the **Italian Primatological Association.**
- 2012, October 4 - 6, Bussolengo (Verona): 3rd **National Conference on Research in Parks, Knowledge and Well-being.**
- 2013, September 19-21, Turin: III Congress of the **Italian University Network for Development Cooperation (CUCS).**
- 2013, April 17-19, Asti: XXI Congresso **Associazione Primatologica Italiana.**
- 2013, October 4-6, Bussolengo (Verona): 4th **National Conference on Research in Parks.**
- 2014, October 10-12, Bussolengo (Verona): 5th **National Conference on Research in Parks.**
- 2014, September 22-25, Bari: 75th Congress of the **Italian Zoological Union.**
- 2016, August 30 - September 2, Milan: 1st joint national congress **SITE - UZI - SIB.**
- 2017, September 14-16, Trento: XXIII National Congress - **Italian Primatological Association.**

## Publications

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1. **Gamba, M**, Giacomina, C, Key issues in the study of primate acoustic signals. *Journal of Anthropological Sciences*, 83, 61-87, 2005
2. **Gamba, M**, Giacomina, C, Quantitative acoustic analysis of the vocal repertoire of the crowned lemur. *Ethology Ecology & Evolution*, 19, 4, 323-343, 2007
3. **Gamba, M**, Giacomina, C, Vocal tract modeling in a prosimian primate: the black and white ruffed lemur. *Acta Acustica united with Acustica*, 92, 5, 749-755, 2006
4. Giacomina, C, Sorrentino, V, Rabarivola, C, **Gamba, M**, Sex differences in the song of *Indri indri*. *International Journal of Primatology*, 31, 4, 539-551, 2010
5. Maretti, G, Sorrentino, V, Finomana, A, **Gamba, M**, Giacomina, C, Not just a pretty song: an overview of the vocal repertoire of *Indri indri*. *Journal of Anthropological Sciences*, 88, 151-165, 2009
6. Pozzi, L, **Gamba, M**, Giacomina, C, The use of Artificial Neural Networks to classify primate vocalizations: a pilot study on black lemurs. *American Journal of Primatology*, 72, 4, 337-348, 2010
7. Castellano, S, **Gamba, M**, Marathon callers: acoustic variation during sustained calling in treefrogs. *Ethology Ecology & Evolution*, 23, 4, 329-342, 2011



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8. **Gamba, M**, Giacoma, C, Key issues in the study of primate acoustic signals, an update. *Journal of Anthropological Sciences*, 88, 215-220, 2010
9. **Gamba, M**, Colombo, C, Giacoma, C, Acoustic cues to caller identity in lemurs: a case study. *Journal of Ethology*, 30, 1, 191-196, 2012
10. Favaro, L, Tirelli, T, **Gamba, M**, Pessani, D, Sound production in the red swamp crayfish *Procambarus clarkii* (Decapoda: Cambaridae). *Zoologischer Anzeiger*, 250, 2, 143-150, 2011
11. Tirelli, T, Favaro, L, **Gamba, M**, Pessani, D, Performance comparison among multivariate and data mining approaches to model presence/absence of *Austropotamobius pallipes* complex in Piedmont (North Western Italy). *Comptes Rendus Biologies*, 334, 10, 695-704, 2011
12. **Gamba, M**, Favaro, L, Torti, V, Sorrentino, V, Giacoma, C, Vocal tract flexibility and variation in the vocal output in wild indris. *Bioacoustics*, 20, 3, 251-265, 2011
13. Tirelli, T, **Gamba, M**, Pessani, D, Support vector machines to model presence/absence of *Alburnus alburnus alborella* (Teleostea, Cyprinidae) in North-Western Italy: comparison with other machine learning techniques. *Comptes Rendus Biologies*, 335, 10, 680-686, 2012
14. Tirelli, T, **Gamba, M**, Pessani, D, Tudge, CC, Spermatophore and spermatozoal ultrastructure of the Mediterranean hermit crab *Pagurus excavatus* (Paguridae: Anomura: Decapoda). *Journal of the Marine Biological Association of the United Kingdom*, 93, 05, 1363-1371, 2013.
15. **Gamba, M**, Friard, O, Giacoma, C, Vocal Tract Morphology Determines Species-Specific Features in Vocal Signals of Lemurs (*Eulemur*). *International Journal of Primatology*, 33, 6, 1453-1466, 2012.
16. Seiler, M, Schwitzer, C, **Gamba, M**, Holderied, MW, Interspecific semantic alarm call recognition in the solitary Sahamalaza sportive lemur, *Lepilemur sahamalazensis*. *PloS One*, 8, 6, e67397, 2013
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18. Torti, V, **Gamba, M**, Rabemananjara, ZH, Giacoma, C, The songs of the indris (Mammalia: Primates: Indridae): contextual variation in the long-distance calls of a lemur. *Italian Journal of Zoology*, 80, 4, 596-607, 2013
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22. Nadhurou, B, Righini, R, **Gamba, M**, Laiolo, P, Ouledi, A, Giacoma, C, Effects of human disturbance on the mongoose lemur *Eulemur mongoz* in Comoros: implications and potential for the conservation of a Critically Endangered species. *Oryx*, 1-8, 2017
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24. Comazzi, C, Mattiello, S, Friard, O, Filacorda, S, **Gamba, M**, Acoustic monitoring of golden jackals in Europe: setting the frame for future analyses. *Bioacoustics*, 25, 3, 267-278, 2016
25. Favaro, L, Gili, C, Da Rugna, C, Gnone, G, Fissore, C, Sanchez, D, McElligott, AG, **Gamba, M**, Pessani, D, Vocal individuality and species divergence in the contact calls of banded penguins. *Behavioural Processes*, 128, 83-88, 2016
26. Friard, O, **Gamba, M**, BORIS: a free, versatile open-source event-logging software for video/audio coding and live observations. *Methods in Ecology and Evolution*, 7, 11, 1325-1330, 2016
27. **Gamba, M**, Torti, V, Estienne, V, Randrianarison, RM, Valente, D, Rovara, P, Bonadonna, G, Friard, O, Giacoma, C, The indris have got rhythm! Timing and pitch variation of a primate song examined between sexes and age classes. *Frontiers in Neuroscience*, 10, 00249, 2016
28. Favaro, L, **Gamba, M**, Gili, C, Pessani, D, Acoustic correlates of body size and individual identity in banded penguins. *PloS One*, 12, 2, e0170001, 2017. [IF: 3.24; JCR2020: Q2]
29. Torti, V, Bonadonna, G, De Gregorio, C, Valente, D, Randrianarison, RM, Friard, O, Pozzi, L, **Gamba, M**, Giacoma, C, An intra-population analysis of the indris' song dissimilarity in the light of genetic distance. *Scientific Reports*, 7, 1, 10140, 2017. [IF: 4.38; JCR2020: Q1]
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34. De Gregorio, C, Zanolli, A, Valente, D, Torti, V, Bonadonna, G, Randrianarison, RM, Giacoma, C, **Gamba, M**, Female indris determine the rhythmic structure of the song and sustain a higher cost when the chorus size increases. *Current Zoology*, 65, 1, 89-97, 2019 [IF: 2.624; JCR2020: Q1]



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36. Niu, K, Liu, W, Xiao, Z, Wu, A, Yang, T, Riondato, I, Ellwanger, AL, Ang, A, **Gamba, M**, Yang, Y, Giacoma, C, Exploring local perceptions of and attitudes toward endangered François' langurs (*Trachypithecus francoisi*) in a human-modified habitat. *International Journal of Primatology*, 40, 3, 331-355, 2019 [IF: 2.264; JCR2020: Q1]
37. Valente, D, de Gregorio, C, Torti, V, Miaretsoa, L, Friard, O, Randrianarison, RM, Giacoma, C, **Gamba, M**, Finding meanings in low dimensional structures: stochastic neighbor embedding applied to the analysis of *Indri indri* vocal repertoire. *Animals*, 9, 5, 243-256, DOI: v10.3390/ani9050243, 2019. [IF: 2.752; JCR2020: Q1]
38. Pozzi, L, Disotell, TR, Bearder, SK, Karlsson, J, Perkin, A, **Gamba, M**, Species boundaries within morphologically cryptic galagos: evidence from acoustic and genetic data. *Folia Primatologica*, 90, 279-299, DOI: 10.1159/000496972, 2019. [IF: 1.246; JCR2020: Q3]
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40. Favaro, L, **Gamba, M**, Cresta, E, Fumagalli, E, Bandoli, F, Pilenga, C, Isaja, V, Mathevon, N, Reby, D, Do penguins' vocal sequences conform to linguistic laws? *Biology letters*, 16, 2, DOI: 10.1098/rsbl.2019.0589, 2020. [IF: 5.349; JCR2020: Q2]
41. Zanolli, A, De Gregorio, C, Valente, D, Torti, V, Bonadonna, G, Randrianarison, RM, Giacoma, C, **Gamba, M**, Sexually dimorphic phrase organization in the song of the indris (*Indri indri*), *American Journal of Primatology*, 82, 6, e23132, DOI: 10.1002/ajp.23132, 2020. [IF: 2.371; JCR2020: Q1]
42. Norscia, I, Zanolli, A, **Gamba, M**, Palagi, E, Auditory contagious yawning is highest between friends and family members: support for the emotional bias hypothesis, *Frontiers in Psychology*, 11, 442, DOI: 10.3389/fpsyg.2020.00442, 2020. [IF: 2.988; JCR2020: Q2]
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45. Valente, D, De Gregorio, C, Favaro, L, Friard, O, Miaretsoa, L, Raimondi, T, Ratsimbazafy, J, Torti, V, Zanolli, A, Giacoma, C, **Gamba, M**, Linguistic laws of brevity: conformity in *Indri indri*, *Animal Cognition*, 24, 897-906, DOI: 10.1007/s10071-021-01495-3, 2021. [IF: 3.084; JCR2020: Q1\*]



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46. Riondato, I, **Gamba, M**, Tan, CL, Niu, K, Narins, PM, Yang, Y, Giacoma C, Allometric escape and acoustic signal features facilitate high-frequency communication in an endemic Chinese primate *Journal of Comparative Physiology A*, 207, 3, 327-336, 2021. [IF: 1.836; JCR2020: Q2]
47. Favaro, L, Cresta, E, Friard, O, Ludynia, K, Mathevon, N, Pichegru, L, Reby, D, **Gamba, M**, Passive acoustic monitoring of the endangered African Penguin (*Spheniscus demersus*) using autonomous recording units and ecoacoustic indices, *Ibis*, DOI: 10.1111/ibi.12970, 2021. [IF: 2.517; JCR2020: Q1\*]
48. Calcari, C, Pilenga, C, Baciadonna, L, **Gamba, M**, Favaro, L, Long-term stability of vocal individuality cues in a territorial and monogamous seabird, *Animal Cognition*, DOI: 10.1007/s10071-021-01518-z, 2021 [IF: 3.084; JCR2020: Q1\*]
49. Zanolì, A, **Gamba, M**, Lemasson, A, Palagi, E, Norscia, I, Looking into each other's eyes makes it better: eye-to-eye contact enhances sexual interactions in wild geladas *Animal Behaviour*, 177, 269-276, 2021. [IF: 2.844; JCR2020: Q1\*]
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54. De Gregorio, C, Valente, D, Raimondi, T, Torti, V, Miaretsoa, L, Friard, O, Giacoma, C, Ravignani, A, **Gamba, M**, Categorical rhythms in a singing primate, *Current Biology*, 31, R1379-R1380, DOI: <https://doi.org/10.1016/j.cub.2021.09.032>, 2021 [IF: 10.834; JCR2020: Q1\*]
55. Lameira, AR, Alexandre, A, **Gamba, M**, Nowak, M G, Vicente, R, & Wich S, Orangutan information broadcast via consonant-like and vowel-like calls breaches mathematical models of linguistic





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  57. De Gregorio, C, Carugati, F, Valente, D, Raimondi, T, Torti, V, Miaretsoa, L, **Gamba, M**, Giacoma, C., Notes on a tree: reframing the relevance of primate choruses, duets, and solo songs. *Ethology Ecology & Evolution*. 1-5, DOI: 10.1080/03949370.2021.2015451, 2022. [IF: 1.321; JCR2020: Q3]
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  59. Spezie, G, Torti, V, Bonadonna, G, De Gregorio, C, Valente, D, Giacoma, C, **Gamba, M**, Evidence for acoustic discrimination in lemurs: a playback study on wild indris (*Indri indri*), *Current Zoology*, CZ-2021-0168.R1, 2022. [IF: 2.624; JCR2020: Q1]
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  61. Valente, D, Miaretsoa, L, Anania, A, Costa, F, Mascaro, A, Raimondi, T, De Gregorio, C, Torti, V, Friard, O, Ratsimbazafy, J, Giacoma, C, **Gamba, M**, Comparative analysis of the vocal repertoires of the indri (*Indri indri*) and the diademmed sifaka (*Propithecus diadema*), *International Journal Of Primatology*, 2022. [IF: 2.264; JCR2020: Q1]
  62. Ancillotto, L, Pafundi, D, Cappa, F, Chaverri, G, **Gamba, M**, Cervo, R, Russo, D, Batesian acoustic mimicry in mammals: bats mimic hymenopteran sounds to deter predators. *Current Biology*, 2022. [IF: 10.834; JCR2020: Q1\*]
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7. Riondato, I, Giuntini, M, **Gamba, M**, Giacoma, C, Vocalization of red-and grey-shanked douc langurs (*Pygathrix nemaeus* and *P. cinerea*). *Vietnamese Journal of Primatology*, 2, 75-82, 2013
8. Tan, CL, Yang, Y, Niu, K, Shi, L, Zhang, W, Riondato, I, Giacoma, C, Balletto, E, **Gamba, M**, Phillips, JA, Fostering "Little Green Guards" through a collaborative partnership to create an effective conservation education program for rural children in Guizhou, China. *Imagining cultures of cooperation: Universities networking to face the new development challenges. Proceedings of the III CUCS Congress*, 67-72, 2013.
9. Giacoma, C, **Gamba, M**, Torti, V, Balletto, E, Antonacci, D, Paire, MC, Ouledi, A, Afraitane, K, Rasamimanana, H, Randrianodiasana, J, Andriaholinirina, N, Miasa, E, Ratsimbazafy, J, Beccaro, G, Bounous, G, Cooperation experiences with HEIs in the Indian Ocean. *Imagining cultures of cooperation: Universities networking to face the new development challenges. Proceedings of the III CUCS Congress*, 63-66, 2013.
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14. Azzolin, M, Saintignan, S, Pintore, L, Friard, O, **Gamba, M**, Giacoma, C, A dedicated ethogram and the employment of the BORIS software for monitoring striped dolphin surface behavior in Greece (Gulf of Corinth). 2018 IEEE International Workshop on Metrology for the Sea - Learning to Measure Sea Health Parameters - *MetroSea 2018 Proceedings*, 8657846, 135-139, 2019.

### Reviews

1. Ravignani, A., **Gamba, M.** , *Evolving Musicality | The evolving animal orchestra: in search of what makes us musical* by Henkjan Honing, translated by Sherry MacDonald, The MIT Press, 2019. 9780262039321, price US \$27.95/£ 22.00, hbk (160 pp.). *Trends in Ecology and Evolution*, 34, 583-584, 2019.

### Curatorships

1. Masters, JC, **Gamba, M**, Génin, F, *Leaping Ahead: advances in prosimian biology*. Series: *Developments in Primatology: Progress and Prospects*. Springer Science + Business Media. 978-1489999481, 436 pp, 2013

### Book chapters

1. **Gamba, M**, Medard, J, Andriamialison, H, Rakotoarisoa, G, Giacoma, C, What can virtual vocal tracts tell us about lemur communication?, *Leaping Ahead*, 323-330, 2012
2. Pozzi, L, **Gamba, M**, Giacoma, C, Artificial neural networks: A new tool for studying lemur vocal communication, *Leaping Ahead*, 305-313, 2012
3. Sorrentino, V, **Gamba, M**, Giacoma, C, A quantitative description of the vocal types emitted in the indri's song, *Leaping Ahead*, 315-322, 2012
4. Masters, J, **Gamba, M**, Génin, F, What's in a name? Higher level taxonomy of the prosimian primates, *Leaping Ahead*, 3-9, 2012
5. **Gamba, M**, Animal language. The evolutionary perspective of our business, *The Reasons for Nature*, 81, 2014

### Awards

1. Winner of the **2011 U.Z.I. Award of the Italian Zoological Union** for the paper "L'utilizzazione delle caratteristiche acustiche determinate dalla morfologia dell'apparato fonatorio nella ricostruzione dei rapporti filogenetici dei lemuri" in the session dedicated to "Filogenesi e Sistematica", in Bologna, 7 September 2011.

-TEACHING, SUPPLEMENTARY TEACHING AND STUDENT SERVICE ACTIVITIES, INCLUDING THE RESULTS OF STUDENT EVALUATIONS:



## UNIVERSITÀ DEGLI STUDI DI TORINO

### **Course assignments at the University of Turin:**

1. Academic Year 2021/2022: Bachelor of Science in Natural Sciences D.M. 270: Systematic Zoology with Laboratory (Course B) (MFN0692). Teaching assignment: 6.5 CFUs. Average student evaluation of teaching: NA%.
2. Academic Year 2021/2021: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 2 CFUs. Average student evaluation of teaching: NA%.
3. Academic Year 2021/2022: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and Methods of Ethology/Ethological Methods (MFN1531). Teaching assignment: 8 CFUs. Average student evaluation of teaching: NA%.
4. Academic Year 2020/2021: Bachelor of Science in Natural Sciences D.M. 270: Systematic Zoology with Laboratory (Course B) (MFN0692). Teaching assignment: 6.5 CFUs. Average student evaluation of teaching: 93.40%.
5. Academic Year 2020/2021: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 92.28%.
6. Academic Year 2020/2021: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and Methods of Ethology/Ethological Methods (MFN1531). Teaching assignment: 8 CFUs. Average student evaluation of teaching: 92.75%.
7. Academic Year 2019/2020: Bachelor of Science in Natural Sciences D.M. 270: Systematic Zoology with Laboratory (Course B) (MFN0692). Teaching assignment: 6.5 CFUs. Average student evaluation of teaching: 94.36%.
8. Academic Year 2019/2020: Master's Degree in Evolution of Animal and Human Behavior (ECAU) M.D. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 94.29%.
9. Academic Year 2019/2020: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and Methods of Ethology/Ethological Methods (MFN1531). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 87.29%.
10. Academic Year 2018/2019: Master of Science in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 96.68%.
11. Academic Year 2018/2019: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and Methods of Ethology/Ethological Methods (MFN1531). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 96.76%.
12. Academic Year 2017/2018: Master of Science in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 98.35%.



## UNIVERSITÀ DEGLI STUDI DI TORINO

13. Academic Year 2017/2018: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and methods of ethology/Ethological methods (MFN1531). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 96.76%.
14. Academic Year 2017/2018: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Human etho-ecology/Human etho-ecology (MFN1331/INT0763). Teaching assignment: 2 CFUs. Average student evaluation of teaching: 98.05%.
15. Academic Year 2016/2017: MSc in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 98.68%.
16. Academic Year 2016/2017: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and methods of ethology/Ethological methods (MFN1531). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 92.32%.
17. Academic Year 2016/2017: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Human etho-ecology/Human etho-ecology (MFN1331/INT0763). Teaching assignment: 2 CFUs. Average student evaluation of teaching: 97.23%.
18. Academic Year 2015/2016: MSc in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 0.74 (between -1 and 1).
19. Academic Year 2015/2016: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Techniques and methods of ethology/Ethological methods (MFN1531). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 0.62 (between -1 and 1).
20. Academic Year 2015/2016: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Human etho-ecology/Human etho-ecology (MFN1331/INT0763). Teaching assignment: 2 CFUs. Average student evaluation of teaching: 0.79 (between -1 and 1).
21. Academic Year 2014/2015: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 95.51%.
22. Academic Year 2014/2015: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Etho-ecology (MFN1534). Teaching assignment: 2 CFUs. Average student evaluation of teaching: 0.29 (between -1 and 1).
23. Academic Year 2013/2014: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 0.69 (between -1 and 1).
24. Academic Year 2012/2013: Master's Degree in Evolution of Animal and Human Behavior (ECAU) D.M. 270: Evolution of Behavior/Ethology (MFN1532/INT0854). Teaching assignment: 6 CFUs. Average student evaluation of teaching: 0.70 (between -1 and 1) for the international track and 0.44 for the domestic track (between -1 and 1).



## UNIVERSITÀ DEGLI STUDI DI TORINO

25. Academic Year 2011/2012: 1st Level Degree in Biological Sciences D.M. 270: General Zoology (course A) (MFN0369). Teaching assignment: 6 CFU. Average student evaluation of teaching: 0.08 (between -1 and 1).

### **Supplemental Teaching Activities:**

1. Academic Years 2010/2011 - 2011/2012 - 2012/2013 - 2013/2014 - 2014/2015: School of Advanced Studies University of Turin: in the course "From the Social Brain to the Emergence of Society".
2. Academic Years 2020/2021: School of Advanced Studies University of Turin: in the course "Evolutionism".

### **Other activities related to teaching and innovative activities:**

1. Academic Year 2021/2022: *Doctoral School of Sciences and Innovative Technologies, Ph.D. Program in Biology and Applied Biotechnologies*, University of Turin: PhD Toolbox, 2 CFU, *Machine Learning with R*.
2. Academic Year 2020/2021: *Doctoral School of Sciences and Innovative Technologies, Ph.D. Program in Biology and Applied Biotechnologies*, University of Turin: PhD Toolbox, 2 CFU, *Machine Learning with R*.
3. Academic Year 2019/2020: *Doctoral School of Sciences and Innovative Technologies, Ph.D. Program in Biology and Applied Biotechnologies*, University of Turin: PhD Toolbox, 4 CFU, *Data Wrangling and Data Mining Techniques*.
4. Academic Year 2017/2018: *Doctoral School of Sciences and Innovative Technologies, Ph.D. Program in Biology and Applied Biotechnologies*, University of Turin: PhD Toolbox, 16 hours, *Data Wrangling and Data Mining Techniques*.
5. Academic Year 2016/2017: *Doctoral School of Sciences and Innovative Technologies, Ph.D. Program in Biology and Applied Biotechnologies*, University of Turin: PhD Toolbox, 12 hours, *Unsupervised and Supervised Learning*.
6. Member of six commissions for the attainment of the title of PhD at the University of Parma (PhD in Biology of Behavior - 2 times), the University of Messina (PhD in Cognitive Science), the Polytechnic of Turin (ScuDo) and the University of Turin (PhD in Human Sciences - Developmental and Educational Psychology), Chairman of the Commission for the University of Turin (PhD in Biological Sciences and Applied Biotechnology)
7. External *referee* for a PhD thesis at the University of Fort Hare, South Africa.
8. *Senior Expert* in Distance Learning in the SCORE project "*Supporting Cooperation for Research and Education*" funded by the EDULINK Programme, with financial assistance from the European Union (2009-2012; ACP Contract RPR 118 # 36).
9. Academic Year 2019/2010: Contract Professor for the SCORE project; holder of the course "*Biodiversity Evaluation*" held in French, in Madagascar, at the University of Mahajanga, and in the



## UNIVERSITÀ DEGLI STUDI DI TORINO

Comoros Islands. I have also carried out a *training* involving 45 students in total and I have followed 4 of them for the preparation of master thesis.

10. *Expert Trainer* for the BIRD project "*Biodiversity Integration and Rural Development*" funded by the ACP EU Science and Technology program, an ACP-EU cooperation program in the field of science and technology, with the financial assistance of the European Union (2009-2012, Contract FED/2009/217077).
11. Academic Year 2016/2017: Frontal teaching activity (4 hours) for the advanced course CIRCE (Centro Interuniversitario Ricerca Cetacei) in the field of "Techniques for the study of behavior".
12. Academic Year 2018/2019: Invited *training session* at Equipe Neuro-Éthologie Sensorielle (ENES) - Université de Saint-Étienne & Université de Lyon on BORIS software ([www.boris.unito.it](http://www.boris.unito.it)), in collaboration with Dr. Olivier Friard (March 2019).
13. Visiting professor (1 CFU) at the University of St. Andrews, School of Psychology and Neuroscience, Scotland, as part of the ERASMUS+ Teaching Staff Program (March 2019).
14. Visiting professor (1 CFU) (1 CFU) at the University of Antananarivo, Ecole Supérieure des Sciences Agronomiques, Madagascar, as part of the ERASMUS+ Teaching Staff International Partnerships Program (June 2019).

### **4. Student Training (thesis etc.)**

Beginning with the Academic Year 2011-2012, I have served as primary supervisor on:

- **14 Bachelor's** thesis in Natural Sciences (all completed);
- **12 Bachelor's** thesis in Biological Sciences (all completed);
- **1 Master's** thesis in Natural Sciences Ante D.M. 509 (completed);
- **1** thesis in Environmental Biology (completed);
- **76** Master's theses in Evolution of Animal and Human Behavior, **7** of which belong to the International Joint Degree.
- *Co-tutor* of master thesis at the Universities of Milan, Parma, Padua, Fort-Hare, Pompeu Fabra Barcelona, Rennes, for a total of 11 theses (all completed).
- *Co-tutor* of **6** PhD theses completed at the University of Turin.
- *Tutor* of **1** doctoral thesis completed at the University of Turin.
- *Tutor* of **3** PhD student at the University of Turin.

-INSTITUTIONAL, ORGANIZATIONAL AND SERVICE ACTIVITIES OF THE UNIVERSITY:

### **Institutional activities and services to the University**

- **University of Turin.** Delegate of the Department of Life Sciences and Systems Biology for the Scienza Nuova Inter-University Center (Academic Years 2019-2020; 2020-2021; 2021-2022).



## UNIVERSITÀ DEGLI STUDI DI TORINO

- **University of Turin.** President of the Master of Science in Evolution of Animal and Human Behavior (Academic Years 2021-2022; 2022-2023, 2023-2024).
- **University of Turin.** I am a member of the Doctoral College *Doctoral School of Sciences and Innovative Technologies, Ph.D. Program in Biology and Applied Biotechnologies*.
- **University of Turin.** I have participated in the Department Council as an elected member for two terms (July 2012 - October 2015).
- **University of Turin.** I served as the contact person for Turin University's ETHO International Degree from 2013 until its deactivation in Academic Year 2015-2016.
- **University of Turin.** Delegate of the Department of Life Sciences and Systems Biology at the Interuniversity Cetacean Research Center from 2017 to present.
- **University of Turin.** Delegate of the Department of Life Sciences and Systems Biology for Projects in Africa at the Internationalization Committee of the University of Turin (Academic Years 2016-2017; 2017-2018).
- **University of Turin.** Delegate of the Department of Life Sciences and Systems Biology at Istituto Interateneo di Studi Avanzati Scienza Nuova of the University of Turin and Politecnico di Torino from 2019 to present.
- **University of Turin.** Member of the committee for the evaluation of international applications to the Master's Degree Courses of the University of Turin, Academic Year 2018-2019.
- **University of Turin.** I am a member of the teaching committee of the Evolution of Animal and Human Behavior (ECAU) Master's Degree at the University of Turin from 2013 to present.
- **University of Turin.** Chairman of the committee for the evaluation of international applications to the Master's Degree Courses of the University of Turin for the Academic Year 2015-2016.
- **University of Turin.** Participant in the university working table 'Artificial Intelligence and Climate Change' for the Department of Life Sciences and Systems Biology (Academic Year 2018-2019).
- **University of Turin.** Organizer, in collaboration with Dr Olivier Friard, of the BORIS Workshop in 2014 and 2015 and the *workshop* "Behavioral Analysis with BORIS" in 2016, 2017, 2018, 2019.

### Activities in scientific societies and affiliation





## UNIVERSITÀ DEGLI STUDI DI TORINO

- Founding member of the new *Italian Primatologists Association* and former member of *the Italian Primatological Association* since 1996.
- Board member of the *Italian Primatological Association* from 2007 to 2011.
- Secretary and Treasurer of the *Italian Primatological Association* from 2011 to 2015.
- Member of the *Italian Institute of Anthropology* from 2006 to 2014.
- Member of the *Italian Zoological Union* since 2011.
- Member of the *International Primatological Society* since 2004.
- Scientific Secretary of the XX Congress of the *International Primatological Society* (2004).
- Member of the *Acoustical Society of America* since 2016.
- Member of the Organizing Committee of the *Second Joint Meeting of Société Zoologique de France and Unione Zoologica Italiana* that was held in Turin from September 18 to 22, 2017.

### **Scientific publishing activity**

- Member of the *Editorial Board* of the *Journal of Comparative Physiology A*.
- *Past member* of the *Editorial Board* of the *Open Acoustics Journal*.
- Member of the *Editorial Board* of the *Italian Journal of Cognitive Sciences*.
- *Editor* of a Springer volume for the *Development in Primatology* series entitled '*Leaping Ahead*'.
- *Review Editor* for the *Conservation* section of the journal *Frontiers in Ecology and Evolution*.
- I have been an *ad hoc reviewer* for the following journals and institutions, among others: *BMC Evolutionary Biology*, *American Journal of Primatology*, *International Journal of Primatology*, *Annals of the New York Academy of Sciences*, *Scientific Reports*, *Animal Behaviour*, *Journal of Acoustic Society America*, *Folia Primatologica*, *Italian Journal of Zoology*, *Computers and Electronics in Agriculture*, *Bioacoustics*, *Behavior*, *Ethology*, *Ethology Ecology & Evolution*, *Trends in Ecology and Evolution*, *Grant Agency of the Academy of Sciences of the Czech Republic*, *FWO Research Foundation - Flanders*, *National Science Foundation South Africa*, *The Leakey Foundation*.

### **Internationalization**

- I have entered into or initiated numerous international agreements with universities in various countries, including China, South Africa, Madagascar, Spain, Brazil, Thailand and Vietnam. My interest towards internationalization and my international outlook on research are also evidenced by the high percentage of publications that included authors from foreign universities.

### **Third mission/social responsibility**



## UNIVERSITÀ DEGLI STUDI DI TORINO

- I have repeatedly participated in the Department of Life Sciences and Systems Biology's High School Orientation and Interaction Initiatives, such as "Chi Ricerca Trova".
- I have actively participated in public meetings organized by other subjects, such as Parco Natura Viva in Bussolengo (VR) and ZoomTorino in Piscina (TO).
- I have participated in radio and television broadcasts such as Sky Tg24, Striscia La Notizia, and given interviews for newspapers and networks such as RAI, BBC Nature, Euronews, National Geographic, La Stampa, Repubblica, Corriere della Sera.
- I organized a series of talks at the third classes of the European State International Primary School "Altiero Spinelli", on the topics Animal Communication, Evolution of Language and Ontogeny of Voice, in May 2014.
- I was among the scientific supervisors of the outreach and public engagement event "*Sound and the city*" held at the Rector's Palace of the University of Turin, October 18-27, 2016.
- I recently published a popular article on Rhythm in Humans and Animals in *Le Scienze* with Andrea Ravignani and Cinzia Chiandetti (2018).
- Among the popular initiatives aimed at children and young people, I would like to include the project funded by the Fondazione Con I Bambini in the Call for New Generations - Grad. B "High five! Community projects between north and south" (2017-GEN-00335; 2018-2019). I will be the contact person for the University of Turin for the project "How invasive are we? Biomonitoring of native and invasive animal species and the effect of anthropogenic impact".
- I was involved in providing materials for the New York Times (2019) special weekend issue that listed the Maromizaha Forest soundscape as one of the 10 most interesting soundscapes on the planet.
- Discussant of the book "La Mente Animale" by Enrico Alleva at the XXXIII Salone Internazionale del Libro di Torino, 15/10/21

### **Other organizational activities**

- Member of the Organizing Committee of the Associazione Primatologi Italiani congress to be held in Turin in June 2020 (postponed due to the COVID-19 pandemic).
- Member of the Organizing Committee of the *Forum Acousticum 2023* congress, which has nominated Turin as host city.
- I was Scientific Secretary of the 20th Congress of the *International Primatological Society* in August 2004.
- Permanent member of the Scientific Committee of the National Conference on Research in Parks.
- I was part of the *local organizing committee* of the ESEB 2009 (*European Society for Evolutionary Biology*) congress held in Turin in 2009.



## UNIVERSITÀ DEGLI STUDI DI TORINO

***Information pursuant to EU Regulation 2016/679:***

*the above data are required by the provisions in force for the purposes of the procedure for which they are requested and will be used exclusively for that purpose.*

Turin, May, 26<sup>th</sup> 2022

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