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RESEARCH PROFILE

Dr Marco Gamba is Assistant Professor in the Department of Life Sciences and Systems Biology at the University of Torino. His long time interest in sounds and music led him to a growing interest in bioacoustics. His scientific career has started with his master thesis in lemur vocal communication at the University of Torino, in the Nineties. He followed this with professional contracts from the Museo Civico di Storia Naturale of Verona and University of Torino and a post-graduate Master degree in computer science. In these years, Marco worked on Primate skull morphology, distribution of Lepidoptera, conservation of loggerhead sea turtles and amphibians communication. In 2001, Marco started his first contract as Research Assistant in the Department of Animal and Human Biology at the University of Torino, focused on the description of lemur vocal repertoires. In 2005, he received his PhD in Evolutionary Biology and Conservation of Biodiversity from the University of Torino. A common thread throughout Marco's research career has been the development of new methods for the quantitative description of animal vocalizations, including software for sound analysis. His work in Madagascar investigated vocal communication in many lemur species, comprising lemuroids, indris and other diurnal prosimians and demonstrated that patterns of vocal communication are much more complex than what usually thought. In 2004, funded by the Marie Curie Fellowship, Marco spent a period at the University of Sussex, in the Department of Experimental Psychology. When he was in Brighton, he designed playback experiments for prosimians using re-synthesized calls and co-worked at the development of non-supervised methods for call categorization. In 2004, Marco was scientific secretary of XX Congress of the International Primatological Society and editor of the *Folia Primatologica* abstract volume published by S. Karger AG, Basel. In recent years, Marco combined anatomical analyses of the vocal apparatus and acoustical analyses to create computational models of non-human primate vocal tract in order to simulate vocal tract resonance. Gamba's current works are focused on several distinct areas of research, all based around improving our understanding of Primate phonation and vocal abilities. Marco is member of the International Primatological Society, of the Italian Institute of Anthropology, Board Member of the Italian Association of Primatology, Editorial Board Member of the *Open Acoustics Journal*. Marco's served as ad hoc reviewer for the following journals and institutions: *BMC Evolutionary Biology*, *Animal Behaviour*, *Journal of Acoustic Society America*, *Folia Primatologica*, *Italian Journal of Zoology*, *Computers and Electronics in Agriculture*, *Bioacoustics*, Grant Agency of the Academy of Sciences of the Czech Republic.

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