

## ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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## Angelica Crottini CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	CROTTINI
NOME	ANGELICA
DATA DI NASCITA	12, Agosto, 1979
NAZIONALITÀ	Italiana
STATO CIVILE	Nubile, madre di una bambina

### INSERIRE IL PROPRIO CURRICULUM (non eccedente le 30 pagine)

#### WORK EXPERIENCE

06/2015 – ongoing

#### Auxiliary Researcher and PI of the Biogeography and Evolution group - BIOEVOL

CIBIO/InBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto, Campus Agrário de Vairão, Portugal. Headed by Prof. Dr. Nuno Ferrand.

<https://cibio.up.pt/research-groups-1/details/bioevol/info>

Since January 2018 I am the PI of the Biogeography and Evolution group. I am working on several projects organized in the following four main objectives: 1) Taxonomy and Systematics. We combine extensive fieldwork research with rapid molecular taxonomic identification and the comparative analyses of museum specimen to promote the cataloguing of Malagasy herpetofauna. 2) Biogeography and Evolution. We combine traditional Sanger sequencing, ancient DNA techniques, whole-transcriptome shotgun sequencing, the sequencing of Ultra-Conserved Elements and bioinformatics to obtain robust time-calibrated phylogenetic hypothesis that can be used to study the biogeographic history of the multiple adaptive radiations of Madagascar. 3) Testing species diversification hypothesis. Using differential gene expression analyses and the study of the evolution of the life-history traits in a comparative phylogenetic framework, we are testing the role played by the femoral macrogland clusters in the diversification of the mantellid frogs of Madagascar, one of the most diversified lineages of amphibians, worldwide. 4) Conservation. We are involved in multiple conservation activities having contributed to the development and implementation of the first and second (2016) Action Plan for Amphibian Conservation of Madagascar. These research lines have been founded by **ten research grants (P17-P26, of which 4 obtained as Principal proponent: P19-P20; P23-P24)** and enabled the publication of **25 contributions** in journals listed in Current Contents (**papers A44-A68**), **8** of which as **corresponding senior author (A44-A46, A55, A58, A61, A63, A65)**. During these years I also published **2 books (B14, B16)**.

10/2014 – 06/2015

Postdoctoral fellow

CIBIO/InBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto, Campus Agrário de Vairão, Portugal. Headed by Prof. Dr. Nuno Ferrand, under the supervision of Dr. James Harris, Dr. Franco Andreone  
<https://cibio.up.pt/people/list/phd>

During these months I studied one of the adaptive radiations of Madagascar (the mantellid frogs) combining macroevolutionary analyses and comparative transcriptomics, to unveil the role played by evolutionary innovations in driving diversification. I used a transcriptomic assay to test a promising evolutionary innovation (e.g. femoral glands) for the presence of signals of positive selection, and I started to collect numerous life history and morphological traits on the Mantellidae phylogeny to address questions on phenotypic evolution. During this period I obtained **1 grant** from the Portuguese Science Fundation (Fundação para a Ciência e a Tecnologia-FCT; **P16**, obtained as **Principal proponent**) and I published **4 research articles** in journals listed in Current Contents (**papers A40-A43**), **2** of which as **senior author (A41, A43)** and **1 as first and corresponding author (A40)**.

05/2011- 09/2014

#### Postdoctoral fellow

CIBIO/InBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto, Campus Agrário de Vairão, Portugal. Headed by Prof. Dr. Nuno Ferrand, under the supervision of Dr. James Harris

<https://cibio.up.pt/people/list/phd>

To study the nature of mitochondrial and nuclear discordance I analyzed the pattern of mitochondrial and nuclear genetic diversities in four European geckos and in four gecko species of the Indian Ocean, where human mediated dispersal has been proposed to explain the absence of phylogeographic signals. During this period I received **8 research grants (P08-P15)**, **1** obtained as **Principal proponent (P10)**, which supported the development of my independent research career. I published **18 contributions** in journals listed in Current Contents (**papers A22-A39**), **5** of which as **first and/or corresponding author (A22, A26-A27, A34-A35)**, and I was recipient of **1 individual fellowship (F7)** that covered all my staying.

11/2008 - 03/2011

#### Postdoctoral fellow

Department of Evolutionary Biology, Zoological Institute, Technical University of Braunschweig, Germany. Under the supervision of Prof. Dr. Miguel Vences.

<https://www.tu-braunschweig.de/zoology/forschung/evolutionsbiologie/ag-vences/alumni>

During this period I used a highly integrative taxonomic approach that combine the study of morphology, genetics, ecology and bioacoustics to study the taxonomy and systematics of Malagasy amphibians and reptiles. I performed several field expeditions and I worked on multiple projects in evolutionary genetics (e.g: phylogeny, molecular systematics, integrative taxonomy, phylogeography). Most relevant, I studied the patterns of vertebrate species colonisation and differentiation in Madagascar. This work, later published in PNAS (**A22**), allowed dating the vertebrate colonization history of the island and revealed that most of Madagascar extant vertebrate fauna colonized the island around 60-70 Mya, when the island was already separated from all other landmasses. In this period I received **4 research grants (P04-P07)**, **1** obtained as **Principal proponent (P07)**. I published **16 contributions** in journals listed in Current Contents (**papers A06-A21**), **6** of which published as **first and/or corresponding author (A07, A10, A13, A15-A16, A20)**, and I was recipient of **3 individual fellowships (F4-F6)** that covered all my staying.

05/2008 - 09/2008

#### Visiting researcher

Department of Biotechnology and Biosciences, University of Milano-Bicocca, Italy. Under the supervision of Prof. Dr. Maurizio Casiraghi and Prof. Dr. Marco Ferraguti

<http://www.zooplantlab.btbs.unimib.it/index.php/it/collaboratori.html>

I characterized the presence and distribution of the lethal amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) in wild amphibians populations of North-western Italy (**publication B5**). In this period I received **1 research grants (P03)**, I published **2 contributions** as **first and corresponding author** in journals listed in Current Contents (**papers A04-A05**), and I was recipient of **1 individual fellowships (F3)** that covered all my staying.

## EDUCATION

02/2008

### PhD in Animal Biology

**Majors:** Taxonomy, Systematics, Evolutionary Genetics, Molecular biology

10/2004

### Master (pre-Bologna, five-year degree) in Biological Sciences

**Final grade:** 106/110; **Majors:** Phylogeography, Phylogeny, Herpetology

**QUALIFICATIONS**

02/2017-01/2022

01/2014-07/2024

01/2014-07/2024

Qualification à Maître de conférences du Muséum national d'histoire naturelle  
68 - Biologie des organismes (number of qualification: 17468257830), from the French Ministry of National Education, Teaching and Research  
Italian National Scientific Qualification  
05/B1, Zoology and Anthropology, from the Ministry of Universities and Research (MIUR) to function as Associate Professor in Italian Universities  
Biologist Qualification  
from the Italian National Order of Biologists (ONB) and the Italian Ministry of Universities and Research (MIUR) to practice the profession of Biologist in Italy and other European countries

**PERSONAL SKILLS**

Mother tongue  
Other language(s)

English  
French  
Portuguese  
German  
Spanish

Italian				
UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C1	C1	C1	C2
C1	C1	C1	C1	C1
C2	C2	C1	C1	B1
A2	A2	B1	A2	A1
B2	B2	B2	B2	A1

## Grants and Fellowships

I have been awarded several grants and individual fellowships based on national or European competitive calls:

### Grants

- P26.** December 2019: Post-doctoral fellowship award (24 months) from the Department of Centre for Invasion Biology, Botany & Zoology (Subcommittee B of the Research Committee) of Stellenbosch University “Evaluation of behavioural and morphological traits promoting successful invasion of Madagascar by the Asian common toad (*Duttaphrynus melanostictus*)” (Principal Investigators: Prof. Dr. J. Measey and **Dr. A. Crottini**,) - R500000
- P25.** August 2018: research grant from The National Geographic Society's Committee for Research and Exploration - Early Career Grants, US (EC-50656R-18); “Unveiling amphibian and reptile diversity of the unexplored areas of the Andringitra Massif (Southern Madagascar)” (Principal Investigator: F. Belluardo; **Dr. A. Crottini**, Team member) - 6236\$
- P24.** May 2018: Research grant from the Fundação para a Ciência e a Tecnologia, Portugal (02/SAICT/2017/31254) “How and why species multiply? Disentangling the evolution of the mantellid frogs of Madagascar to unveil the determinants of species diversification” (Principal Investigator: **Dr. A. Crottini**) - 239.851,62€
- P23.** April 2018: research grant from the Saint Louis Zoo Field Conservation program, USA (FRC #2018-01); “Gaining new insights into the invasion dynamics of the Asian toad (*Duttaphrynus melanostictus*) in Toamasina (Eastern Madagascar): a radiotracking study to quantify its invasive potential.” (Principal Investigator: **Dr. A. Crottini**) - 9987\$ (8221€)
- P22.** January 2018: research grant (12 months: from February 2018 to January 2019) from the Rufford Small Grants for Nature Conservation, UK ( 24098-1); Distribution, abundance and gene flow of a critically endangered frog micro-endemic to Ankaratra Massif: *Boophis williamsi*” (Principal Investigator: L.M.S. Rakotozafy; **Dr. A. Crottini**, Team member) - 4,848€ (5475€)
- P21.** December 2016: research grant from the Saint Louis Zoo Year end conservation funds, USA; “Invasive Toad Management National Strategy Meeting” (Principal Investigator: Karen Freeman; **Dr. A. Crottini**, Team member ) - 4450\$ (4161€)
- P20.** November 2016: research grant from the Saint Louis Zoo Field Conservation program, USA (FRC #2016-09); “Linking biodiversity and carbon stocks in the Betampona special reserve to understand REDD+ mechanism in small centers of endemism” (Principal Investigator: **Dr. A. Crottini**) - 9717\$ (9128€)
- P19.** June 2016: Research grant from the EAZA (European Association of Zoos and Aquaria) Amphibian Conservation Fund, The Netherlands; “Supporting amphibian chytrid screening to save the hyperdiverse amphibian community of Madagascar” (Principal Investigators: **Dr. A. Crottini**, James P. Lewis) - 3000€
- P18.** April 2016: Research grant from the Morris Animal Foundation, USA (D16ZO-022); “Assessing the risk that chytridiomycosis poses to the megadiverse amphibian community of Madagascar” (Principal Investigator: Prof. Dr. Matthew Fisher; **Dr. A. Crottini**, Team member) - 160923\$
- P17.** December 2015: Conservation grant from the Critical Ecosystem Partnership Fund, a joint initiative of l'Agence Française de Développement, Conservation International, the European Union, the Global Environment Facility, the Government of Japan, the MacArthur Foundation and the World Bank (MAD-65823); “Building a Future for the Amphibians of Madagascar” (Principal Investigator: Dr. J.P. Lewis; **Dr. A. Crottini**, Team member) - 194200\$ (171147€)
- P16.** December 2014: Exploratory Research grant from the Fundação para a Ciência e a Tecnologia, Portugal (IF/00209/2014/CP1256/CT0011); “Understanding the pattern and processes of species differentiation using the adaptive radiation of the mantellid frogs of Madagascar (Anura: Mantellidae) as a model system” (Principal Investigator: **Dr. A. Crottini**) - 50000€
- P15.** August 2014: research grant from the Paris Zoo, France; “Supporting amphibian conservation research in Madagascar” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Principal Investigator of the Chytrid Monitoring section) - 60000€
- P14.** March 2014: research grant from The Mohamed bin Zayed Species Conservation Fund, Abu Dhabi, UAE (Emergency Project); “Chytrid screening at the following high-, or mid-altitude sites on Madagascar: Andringitra, Itremo, Ambohitantely, Ankaratra, Ranomafana and Antoetra” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) - 20000\$ (17293€)
- P13.** September 2013: research grant from the Paris Zoo, France; “Monitoring for *Batrachochytrium dendrobatidis* (Bd) in wild amphibian populations from Madagascar” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) - 1700€
- P12.** April 2013: research grant from the Parc de Thoiry, France; “Conservation of the amphibians of Madagascar: A proposal of collaborative efforts” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) - 7340€
- P11.** February 2013: research grant from the Rufford Small Grants for Nature Conservation, UK (12931-1); “Monitoring for *Batrachochytrium dendrobatidis* (Bd) in the amphibians of Madagascar: false alarm or real threat?” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) - 5905€ (6900€)
- P10.** October 2012: research grant from the Saint Louis Zoo Field Conservation program, USA (FRC #12-12); “Reptile Diversity Assessment in the Relict Low Elevation Rainforest of Betampona Natural Reserve: A Comparative Approach” (Principal Investigator: **Dr. A. Crottini**) - 9981.50\$ (7550€)
- P09.** May 2012: research grant from The Mohamed bin Zayed Species Conservation Fund, Abu Dhabi, UAE (Project 12253505); “Implementing an early detection plan for the amphibian chytrid fungus in Madagascar” (Principal Investigator: Herilala Randriamahazo; **Dr. A. Crottini**, Team member) - 10000\$ (7570€)
- P08.** June 2011: research grant from the Saint Louis Zoo Field Conservation program, USA (FRC #11-5); “Implementing an early detection plan for the amphibian chytrid fungus in Madagascar” (Principal Investigator: Dr. K. Freeman; **Dr. A. Crottini**, Team member) - 9980\$ (7550€)
- P07.** January 2011: Synthesis grant from the European-founded Integrated Infrastructure Initiative (ES-TAF-1029); “Understanding species' diversification patterns of the amphibians of Madagascar” at the Museo Nacional de Ciencias Naturales, Spain (Principal Investigator: **Dr. A. Crottini**; Host: Dr. David R. Vieites)
- P06.** October 2009: research grant from the Saint Louis Zoo Field Conservation program, USA; “Disease monitoring in Madagascar” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) - 9035\$ (6850€)
- P05.** June 2009: research grant from The EDGE Zoological Society of London-Living conservation, London, UK; “Monitoring the breeding season of *Scaphiophryne gottlebei* in the Isalo Massif, southern-central Madagascar” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) - 2400€ (2846€)
- P04.** March 2009: research grant from The Mohamed bin Zayed Species Conservation Fund, Abu Dhabi, UAE; “Monitoring the breeding season of *Scaphiophryne gottlebei* in the Isalo Massif, southern-central Madagascar” (Principal Investigator: Dr. F. Andreone; **Dr. A. Crottini**, Team member) – 18600 USD
- P03.** April 2008: research grant from the Fondazione Cariplo, Italy; “Dai geni all'ecosistema: il DNA barcoding come supporto innovativo per la protezione della biodiversità e l'analisi della funzionalità delle reti ecologiche” (Principal Investigator: Prof. Dr. Maurizio Casiraghi; **Dr. A. Crottini**, Team member) - 353000€
- P02.** March 2007: Synthesis grant from the European-founded Integrated Infrastructure Initiative (ES-TAF-1932); “Environmental influences or phylogenetic constraints? An analysis of Madagascar anurans calls” at the Fonoteca Zoológica, Museo Nacional de Ciencias Naturales, Spain (Principal Investigator: **A. Crottini**; Host: Dr. Márquez Martínez de Orense);
- P01.** April 2004: research grant COFIN founded by the Italian Ministry of Research; “Investigation of the species status of *Tubifex tubifex* (Annelida: Clitellata)” (Principal Investigator: Prof. M. Ferraguti; **A. Crottini**, Team member) - 19000€

### Individual fellowships

- F07.** October 2014: Postdoctoral grant from the Fundação para a Ciência e a Tecnologia (FCT), Portugal (SFRH/BPD/96982/2013);
- F06.** May 2011: Postdoctoral grant from the Fundação para a Ciência e a Tecnologia (FCT), Portugal (SFRH/BPD/72908/2010);
- F05.** July 2010: Postdoctoral grant from the Technical University of Braunschweig and the Deutsche Forschungsgemeinschaft (DFG);
- F04.** November 2009: Postdoctoral grant from the University of Milan (Borsa di Perfezionamento all'estero);
- F03.** July 2008: Postdoctoral grant from the University of Milan (Borsa di Perfezionamento all'estero);
- F02.** March 2008: Postdoctoral grant “Dote Ricercatore” from the Regione Lombardia and European Social Found (ESF);
- F01.** October 2004: PhD grant in Animal Biology from the Italian Ministry of University and Research.

## Tutoring and Teaching

**Academic year 2019-2020.** Auxiliary Professor (25%) at the Department of Biology of the Faculty of Sciences of the Universidade do Porto, Portugal

**October 2010.** Instructor of the Workshop “**Disease Screening in Amphibians**” held at Parc Ivoloïna, Tamatave (Madagascar). Organized by the Amphibian Specialist Group, Conservation International, Museo Regionale di Scienze Naturali, Parc Ivoloïna, Durrell Trust, European Association of Zoos and Aquaria, Technical University of Braunschweig (Germany) and North-West University (South Africa). 20 hours of teaching

**October 2009.** I have organized (and taught to) an intense course of 40 hours on **Molecular Evolution** at the University of Antananarivo (Madagascar), where the teaching was performed in French. This workshop was intended for the students of the second year of Master in Animal Biology at the Université d’Antananarivo, Department de Biologie Animale

**March 2009.** Teachers at the winter-school “**Bioinformatics to analyze biodiversity**”, organized by the Italian national network of biosystematics. During this workshop I was mostly in charge of the teaching of phylogeographic and biogeographic analyses,

**Academic year 2007-2008.** I taught at the practical course of **Zoology** at the Università degli Studi di Milano-Bicocca (Italy). This course was organized for students in Biology in their first curricular year, and I had to cover an amount of 12 hours of teaching.

**Academic year 2005-2006.** I taught at the practical course of **Animal Biology** at the Università degli Studi di Milano (Italy). This course was done for students in Biology in their first curricular year. I had to cover an amount of 27 hours of teaching, providing a general overview of the zoological biodiversity.

### Supervision of five Doctoral students:

**Costanza Piccoli (SFRH/BD/144342/2019)** – Disentangling the evolution of the mantellid frogs of Madagascar to unveil the determinants of species diversification. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2019-2023) ongoing.

**Fulvio Licata (SFRH/BD/131722/2017)** – A multidisciplinary approach to assess the impact of the invasive Asian toad on native ecosystems in Madagascar. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2017-2021) ongoing.

**Francesco Belluardo (PD/BD/128493/2017)** – Studying colonization history and within-island diversification to unveil the micro- and macro-evolution of Madagascar biodiversity. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2016-2020) ongoing.

**Bárbara Rosa da Fonseca Santos (PD/BD/106055/2015)** – Host-microbiome relationships: Linking microbiome diversity and functions within the host tissues using metagenomics and metatranscriptomics approaches. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2015-2020) ongoing.

**Walter Cocca (SFRH/BD/102495/2014)** – Studying the processes of species diversification using the adaptive radiation of the mantellid frogs of Madagascar (Anura: Mantellidae) as a model system. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2015-2020) ongoing.

### Supervision of nine graduated Internship students:

**Ninda Baptista** – Characterizing the amphibian diversity of Angola. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2019-2020), ongoing.

**Javier Lobón-Rovira** – Studying the pattern of gekkonid lizards diversification in sub-saharan Africa. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2017-2018), concluded.

**Aspasia Anagnostopoulou** – Analysis of the diet of a diverse reptile community from Betampona Strict Nature Reserve (Eastern Madagascar) using a Next-Generation Sequencing metabarcoding approach. Erasmus+ hosted by the FCUP-Faculdade de Ciências da Universidade do Porto, Portugal (2018), concluded.

**Alessio Paoletti** – Updating the amphibian species list of Betampona Strict Nature Reserve using molecular taxonomy and the comparative analyses of museum specimens. Garanzia Giovani Trainship hosted by the Associação Portuguesa de Herpetologia (2018), concluded.

**Fulvio Licata** – Abundance, distribution and spread of the introduced Asian toad (*Duttaphrynus melanostictus*) in eastern Madagascar. Garanzia Giovani Trainship hosted by the Associação Portuguesa de Herpetologia (2017), concluded.

**Lovasoa Manuelle Sylviane Rakotozafy** – Distribution, abundance and gene flow of *Mantidactylus pauliani* in Ankaratra Special Reserve, EDGE Fellowship, Conservation Leadership program 2016, in collaboration with the University of Antananarivo, Madagascar (2017-2019), concluded.

**Marco Sannolo** – Herpetological assessment of Sainte Luce Reserve (South East Madagascar). BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2016-2017), concluded.

**Margarida Gonçalves** – Comparative phylogeography of the *Mantella betsileo* species complex. BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2016-2017), concluded.

**Bárbara Rosa da Fonseca Santos** – A phylogenetic analyses of the *Plethodontohyla* genus (Microhylidae: Cophylinae). BioDiv, Doctoral Programme in Biodiversity, Genetics and Evolution, University of Porto, Portugal (2016-2017), concluded.

### Supervision and co-supervision of eight Master students:

**Xavier Porcel** – Population trends monitoring of amphibian communities in Betampona Strict Nature Reserve (Madagascar). Master 2 Biodiversité des EcoSystèmes Tropicaux Terrestres (BEST-T), Université de La Réunion, France (2020), ongoing.

**Maria Teresa Pires Peixoto de Pinho** – Diet analysis of the invasive population of the Asian toad (*Duttaphrynus melanostictus*) in Madagascar. Erasmus+ of Lund University (Sweden) hosted by the FCUP-Faculdade de Ciências da Universidade do Porto, Portugal (2019-2020), ongoing.

**Darwin Diamed Díaz Quirós** – Characterizing the amphibian and reptile diversity of the Andringitra Massif (Southern Madagascar) and assess the degree of connectivity of multiple isolated herpetofaunal communities. CIBIO/InBIO, Mestrado em Biodiversidade, Genética e Evolução, University of Porto, Portugal (2019-2020), ongoing.

**Miguel Rodrigues Ferreira** – Incorporating evolutionary history into conservation planning: the case of Madagascar’s mantellid frogs. CIBIO/InBIO, Mestrado em Biodiversidade, Genética e Evolução, University of Porto, Portugal, December 2019

**Bárbara Baptista Freitas** – The mystery Scops owl of Principe Island: combining evidence for a species description and assessment of its conservation status. CIBIO/InBIO, Mestrado em Biodiversidade, Genética e Evolução, University of Porto, Portugal, October 2019.

**Sophia Camille Freer Rosa** – Is There a Future for the Amphibians of Ankaratra Massif Reserve? Understanding the Role of Landscape Change. CIBIO/InBIO, Mestrado em Biodiversidade, Genética e Evolução, University of Porto, Portugal, November 2017.

**Isabel Sofia Fernandes Pinho Tavares** – Phylogenetic and taxonomic revision of Moroccan *Chalcides montanus*, *C. polylepis* and *P. manueli*. CIBIO/InBIO, Mestrado em Biodiversidade, Genética e Evolução, University of Porto, Portugal, December 2014.

**Silvia Federici** – Filogeografia di *Pelobates fuscus* (Amphibia: Pelobatidae) e identificazione molecolare di un patogeno in popolazioni naturali di anfibi. Università’ degli Studi di Milano-Bicocca, Italy, April 2009.

**Valeria Prada** – *Tubifex tubifex* e *Tubifex blanchardi* (Clitellata: Tubificidae) a confronto: un’analisi morfologica. Università’ degli Studi di Milano, Italy, December 2006.

### Supervision of four Bachelor students:

**Leone De Marco** – Filogeografia di *Anguis* spp. con preliminare revisione tassonomica su base molecolare. Università’ degli Studi di Milano-Bicocca, Italy, March 2011.

**Mattia Resteghini** – DNA barcoding: un approccio molecolare alla caratterizzazione della biodiversità degli Anfibi della penisola di Masoala (Nord-Est Madagascar). Università’ degli Studi di Milano-Bicocca, Italy, October 2010.

**Dimitri Sonzogni** – Caratterizzazione attraverso immunofluorescenza di aggregati spermatici (spermatozeugmata) di *Tubifex blanchardi* (Clitellata: Tubificidae). Università’ degli Studi di Milano, Italy, March 2006.

**Mauro Colla** – Confronto morfologico tra esemplari di *Tubifex tubifex* e della sua forma *Tubifex t. blanchardi* raccolti nelle acque del fiume Lambro. Università’ degli Studi di Milano, Italy, March 2006.

## Honors and Awards

- **2019 onward:** Madagascar Fauna and Flora Group (MFG) Scientific Advisor
- **05/2007:** TebuBio young researchers travel grant
- **10/2003:** Academic Excellence Studentship (Istituto Regionale per il diritto allo studio Universitario, Milano, Italy)
- **10/2002:** Academic Excellence Studentship (Istituto Regionale per il diritto allo studio Universitario, Milano, Italy)

## Invited Seminars

I have been invited to give seminars in multiple international research institution and a plenary lecture in an international congress:

- **12th February 2020:** "The unnoticed extinction: protection of Madagascar's amphibians between old and new threats" **invited seminar** at the conference "Il mondo senza. Il ruolo delle estinzioni nell'evoluzione" – Museo di Storia Naturale di Milano, Milano, Italy 12<sup>th</sup> and 13<sup>th</sup> February 2020
- **11th September 2019:** "Madagáscar: Genómica e Genética Evolutiva num Hotspot de Biodiversidade" **invited seminar** at the conference "How to deal with Nature's dangerous decline: from the IPBES assessments to action" – Serralves Foundation, Porto, Portugal 10<sup>th</sup> and 11<sup>th</sup> September 2019
- **5th September 2019:** "Evolution and Conservation of the herpetofauna of Madagascar" **Plenary lecture** at XX European Congress of Herpetology – Milano, Italy 2<sup>th</sup>-6<sup>th</sup> September 2019
- **2nd May 2019:** "A short overview of a long-lasting collaboration" **invited seminar** at Kölner Zoo, Germany.
- **26th February 2019:** "Is it like trying to find a needle in a haystack? A short history of herpetological discoveries in Madagascar" **invited seminar** at the Universidade do Porto, Portugal.
- **28th January 2019:** "Evolutionary genetics and genomics in a biodiversity hotspot" **invited seminar** at the Università degli Studi di Milano, Italy.
- **13th October 2018:** "Systematics, Evolution and Conservation of the herpetofauna of Madagascar" **invited seminar** at the Swedish Museum of Natural History, Stockholm, Sweden.
- **2nd March 2017:** "An overview of present-day vertebrate diversity of Madagascar: open issues and next challenges" **invited seminar** at the University of Gotheborg, Sweden.
- **15th February 2017:** "A Conservation Strategy for the Amphibians of Madagascar: an overview of the main threats and of the planned conservation activities" **invited seminar** at the University of Aveiro, Portugal.
- **1st September 2015:** "When traditional museological tools meets new cutting-edge applications: our experience with the study of species diversification patterns, taxonomy and conservation of Madagascar herpetofauna" **Plenary lecture** (Symposium #2: "Evolutionary Research in Museums) at VI Congress of the Italian Society for Evolutionary Biology SIBE-ISEB – Bologna, Italy 31st August -3rd September 2015
- **31st October 2014:** "Madagascar: a living laboratory of evolution in peril! An analysis of the unique amphibian biodiversity of the red island and why it is so important to invest in its conservation" **seminar in Biodiversity and Evolution** - CIBIO/InBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, Campus Agrário de Vairão, Portugal
- **11th March 2011:** "Disentangling the evolutionary history of the *Tubifex* species complex (Annelida, Clitellata): a comparison between morpholgy, molecular phylogeny and cytogenetics – **invited seminar** at the Museo Nacional de Ciencias Naturales, Madrid, Spain
- **23th July 2010:** "Phylogeography of *Pelobates fuscus*" – **invited seminar** at CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, Vairão, Portugal
- **19th April 2010:** "Amphibian biogeography and the role of biogeographic studies on the conservation of European and Madagascan amphibians" – **invited seminar** at the Università' degli Studi di Milano-Bicocca, Italy
- **2nd March 2007:** "Phylogeography of the common spadefoot toad (*Pelobates fuscus*)" – **invited seminar** at the Museo Nacional de Ciencias Naturales, Madrid, Spain



## Scientific-editorial activity and Peer Reviews

- **2016 onward:** Zookeys: Subject Editor for Amphibia;
- **2012 onward:** Herpetology Notes: Section Editor;
- **2008-2011:** Herpetology Notes: Managing Editor;
- **Referee for international scientific journals:** Acta Ethologica, Acta Herpetologica, African Journal of Herpetology, Alytes, Amphibia-Reptilia, Annali dell'Istituto Superiore di Sanità, BMC Evolutionary Biology, Contributions to Zoology, Copeia, Ecology and Evolution, European Journal of Taxonomy, Herpetological Conservation and Biology, Hydrobiologia, Journal of Biogeography, Journal of Herpetology, Journal of Limnology, Journal for Nature Conservation, Journal of Zoological Systematics and Evolutionary Research, Madagascar Conservation & Development, Molecular Phylogenetics and Evolution, PeerJ, Philosophical Transactions of the Royal Society B: Biological Sciences, PLoS ONE, Russian Journal of Herpetology, Salamandra, Scientific Reports, The Biological Journal of the Linnean Society, Tropical Conservation Science, Vertebrate Zoology, Zookeys, Zoologia, Zoological Science, Zoologica Scripta, Zoology, Zoosystematics and Evolution, Zootaxa;
- **Referee for grant agencies:** Czech Science Foundation; EDGE Fellowship (Zoological Society of London); Fulbright Visiting Scholar Program; Graduate Student Research Awards of the Society of Systematic Biologist (GSRA-SSB); National Fund for Scientific & Technological Development (FONDECYT), Chile; REPRIS- register of Expert Peer-Review for the scientific evaluation of Italian research of the Italian Ministry of Education, University and Research (MIUR);
- **Editor of the Abstract Book:** Rosa GM, Cadle JE, Crottini A, Dawson J, Edmonds D, Fisher MC, Garcia G, Glaw F, Glos J, Harris RN, Köhler J, Rabemananjara F, Rabesihanaka S, Rabibisoa N, Randrianantoandro JC, Raselimanana AP, Raxworthy CJ, Razafindralabe H, Vallan D, Vences M, Weldon C, Wright PC, Andreone F (eds.) (2015). ACSAM2, A Conservation Strategy for the Amphibians of Madagascar 2: abstract book. Museo Regionale di Scienze Naturali, Regione Piemonte, Torino, pp. 30;
- **Referee for PhD thesis:** Olatz San Sebastián Mendoza, 2016 – Multi scale analysis of *Discoglossus pictus auritus* (Amphibia, Anura) Invasiveness; PhD thesis of the Facultat de Biologia de la Universitat de Barcelona, Spain.

## Jury member

I have been invited to be jury member in different Master and PhD defences:

- **20th November 2017:** Ana Marta Martinho Sampaio – Conservation biogeography of amphibians in Mauritania: integrating DNA barcoding and spatial analyses for the identification cryptic diversity and phylogenetic units; **Vocal.** Mestrado em Biodiversidade, Genética e Evolução, Universidade do Porto, Portugal
- **8th November 2015:** Silvia Rodríguez Fernández – Factores que inciden sobre la conservación das comunidades de anfibios del noroeste ibérico; **Substitute Vocal.** Escola Internacional de Doutoramento, Programa de Doutoramento de Biología Ambiental, Universidade da Coruña, Spain
- **10th October 2014:** Joan Garcia Porta – Evolution and diversification of the geckos of the Arabian Peninsula and Socotra Archipelago, compared to other mainland-island systems; **Vocal.** Facultat de Biologia de la Universitat de Barcelona, Spain.
- **25th February 2013:** Michela Maura – Phylogeography of two newts sub-endemic to the Italian Peninsula: *Lissotriton vulgaris meridionalis* and *Triturus carnifex* (Amphibia, Salamandridae); **Substitute jury member.** Doctoral School in Biology: Biodiversity and Ecosystem Analysis, Università degli Studi - Roma Tre, Italy.

## Assessor

I am frequently asked to provide my feedback in international assessment efforts:

- **2015 onwards:** Aark Conservation needs assessment (Amphibians of Madagascar)
- **2014 onwards:** IUCN Red listing (Amphibians of Madagascar)

## Capacity building

In these years I have been involved in several activities aimed at improving research and coordination activities in Madagascar:

- **2015-to date:** Building a Future for the Amphibians of Madagascar – **Main duties:** Amphibian Program Lead and Amphibian Program Officer tutoring.
- **2011-to date:** Launch and maintenance of the National Monitoring Program (NMP) for the early detection of the amphibian chytrid fungus *Batrachochytrium dendrobatidis* in Madagascar – **Main duties:** fundraising, organisation of the sample collection, coordination of the research activities;
- **2006-to date:** A Conservation Strategy for the Amphibians of Madagascar; development and implementation the Sahonagasy Action Plan and of the New Sahonagasy Action Plan – **Main duties:** fundraisings, build amphibian conservation leadership in Madagascar, coordination of the research activities related to infectious disease and amphibian monitoring;
- **2nd - 6th November 2009:** Setting up the Molecular Biology Laboratory at the Department of Animal Biology of the University of Antananarivo (UADBA), Antananarivo, Madagascar; Training local students on molecular biology techniques.

## Affiliations and memberships

In these years I have been involved in several activities aimed at improving research and coordination activities in Madagascar:

- **2019 onward:** Associação Portuguesa de Biologia Evolutiva (APBE);
- **2019 onward:** Island Biology (IB);
- **2018 onward:** Deutsche Gesellschaft für Herpetologie und Terrarienkund (DGHT);
- **2018 onward:** European Society for Evolutionary Biology (ESEB);
- **2018 onward:** The American Genetic Association (AGA);
- **2015 onward:** Society for Molecular Biology & Evolution (SMBE);
- **2013 - 2017:** International Society for the Study and Conservation of Amphibians (ISSCA); Board members;
- **2013 onward:** IUCN Species Survival Commission Amphibian Specialist Group-Madagascar;
- **2007 onward:** Italian Society for Evolutionary Biology (SIBE-ISEB);
- **2005 onward:** Societas Herpetologica Italica (SHI);
- **2005 onward:** Societas Europaea Herpetologica (SEH).

## Scientific Congress and Symposia Organisation

In these years I have been involved in the scientific organization of several international meetings:

- **Symposium** organized by: **Crottini, A.**, R. de Sá, M.D. Scherz, J. Tonini, M. Vidal-Garcia: “Biology of the Frog Family Microhylidae” at the **9th WCH 2020 – World Congress of Herpetology**, Dunedin, New Zeland, 5th-10th January 2020;
- **TIBE 2016 – Trends in Biology and Evolution: Tropical Biodiversity**, CIBIO/InBIO, Vairão, Portugal, 28th-29th November 2016;
- **ACSAM2 – A Conservation Strategy for the Amphibians of Madagascar: Gathering people to conserve the unique frogs of Madagascar**, centre Valbio, Parc national de Ranomafana, Madagascar, 19th-22nd November 2014;
- **TIBE 2012 – Trends in Biology and Evolution: Integrative approaches in Evolutionary Biology**, CIBIO/InBIO, Vairão, Portugal, 6th-7th December 2012.

## Fieldwork experience

I have participated and organized multiple fieldwork expeditions in Europe and Madagascar:

- **July-August 2019 (3 weeks):** Field work expedition to Betampona and Tamatave (Madagascar), in collaboration with Madagascar fauna and Flora Group and Missouri Botanical Garden;
- **September 2016 (3 weeks):** Field work expedition to Ankaratra, Ranomafana and Tamatave (Madagascar), in collaboration with Imperial College London (Dr. M. Fisher) and the IUCN Amphibian Specialist Group-Madagascar;
- **November 2014 (2 weeks):** Field work expedition to Isalo (Madagascar), in collaboration with Museo Regionale di Scienze Naturali di Torino and University of Kent (Dr. F. Andreone, G.M. Rosa);
- **November 2013-December 2013 (5 weeks):** Field work expedition to Betampona Special Reserve (Toamasina, Madagascar), in collaboration with Museo Regionale di Scienze Naturali di Torino and Madagascar Fauna and Flora Group (Dr. F. Andreone, K. Freeman);
- **October 2010 (3 weeks):** Field work expedition in Madagascar, in collaboration with Museo Regionale di Scienze Naturali di Torino, Durrell Wildlife Conservation Trust and Madagascar Fauna and Flora Group (Dr. F. Andreone, Dr. Gerardo Garcia, Dr. Ann Bollen);
- **September 2010 (1 week):** Fieldwork expedition in Southern Spain and southern Portugal, in collaboration with Technical University of Braunschweig (Prof. Dr. M. Vences);
- **November 2009-December 2009 (8 weeks):** Field work expedition in Madagascar, in collaboration with Technical University of Braunschweig, Germany and Museo Regionale di Scienze Naturali di Torino (Prof. Dr. M. Vences & Dr. F. Andreone);
- **March 2008-May 2008 (6 weeks):** Amphibian monitoring and *Batrachochytrium dendrobatidis* screening in Northwest Italy, in collaboration with Museo Regionale di Scienze Naturali di Torino, Italy (Dr. F. Andreone);
- **March 2006-May 2006 (8 weeks):** Amphibian monitoring in the “SCI – Stagni di Poirino Favari” (To – Italy), in collaboration with Museo Regionale di Scienze Naturali di Torino, Italy (Dr. F. Andreone);
- **March 2005-May 2005 (8 weeks):** Amphibian monitoring in the “SCI – Stagni di Poirino Favari” (To – Italy), , in collaboration with Museo Regionale di Scienze Naturali di Torino, Italy (Dr. F. Andreone);
- **March 2004-May 2004 (8 weeks):** Amphibian monitoring in the “SCI – Stagni di Poirino Favari” (To – Italy), in collaboration with Museo Regionale di Scienze Naturali di Torino, Italy (Dr. F. Andreone);
- **March 2003-May 2003 (8 weeks):** Amphibian monitoring in Ivrea (To – Italy), in collaboration with Museo Regionale di Scienze Naturali di Torino, Italy (Dr. F. Andreone);
- **September 2001 (3 weeks):** Field work in Madagascan primary forests (Radiotracking and vertebrate census) (Dr. V. Venuto & Dr. G. La Marca).



## Scientific outreach

- **Academic year 2019-2020.** PROJECTO BIODIVERSIDADE NA ESCOLA, at Primary school of Vairão, Portugal
- **8th November 2019:** “ACSAM: Uma estratégia de conservação para os anfíbios de Madagascar: uma visão das principais ameaças e das atividades de conservação planeadas” – I Jornadas de Anfíbios de Loulé, Portugal
- **22th May 2019:** “From 70 to 700: A short history of herpetological discoveries in Madagascar” – Pint of Science Portugal, Cervejaria do Carmo, Porto
- **5th May 2019:** Anfíbios e Répteis - Há vida no parque! – Talk and field exploration in the gardens of Serralves Museum, Porto, Portugal;
- **1st-7th April 2019:** BioBlitz Serralves 2019 – exploration of the Serralves Park to discover its amphibian species, Porto, Portugal;
- **13rd May 2018:** Anfíbios e Répteis - Há vida no parque! – Talk and field exploration in the gardens of Serralves Museum, Porto, Portugal;
- **21-22nd April 2018:** BioBlitz Serralves 2018 – exploration of the Serralves Park to discover its amphibian species, Porto, Portugal;
- **October 2016:** Collaboration for the development of the book: “Verde Stupore” Carnet della foresta pluviale by Stefano Faravelli; EDT, Torino, Italy;
- **26th June 2016:** “Madagascar: natura minacciata” – Giornata del Madagascar 2016, Torino, Italy;
- **29th May 2016:** “Madagáscar: um laboratório vivo de evolução em perigo!” – Cycle Café com Ciência em Serralves, Porto, Portugal;
- **30th April 2016:** Discovering the Amphibians of Mindelo Reserve – Field exploration for the celebrations of the Save The Frogs Day 2016, Mindelo (Vila do Conde), Portugal;
- **3rd April 2016:** Anfíbios - Há vida no parque! – Talk and field exploration in the gardens of Serralves Museum, Porto, Portugal .
- **12th February 2016:** Speed dating com biólogos evolutivos – Darwin Day Celebrations, Palácio de Cristal, Porto, Portugal;
- **24th October 2015:** “La grande diversité des amphibiens de Madagascar et leur conservation” – Cycle de mini conferences: Amphibiens: diversité, menaces et protection des espèces, Parc zoologique de Paris, France;
- **18th September 2015:** “Toad and the city: breve storia dell’invasione di *Duttaphrynus melanostictus* in Madagascar” – Workshop HerpeThon 2015, Allevamento e commercio di anfibi e rettili: fra rischi e opportunità di conservazione, Torino, Italy;
- **24th-25th April 2015:** BioBlitz Serralves 2015 – exploration of Serralves Park for amphibians, Porto, Portugal;
- **11th-12th April 2015:** Anfíbios - Há vida no parque! – Talk and field exploration in the gardens of Serralves Museum, Porto, Portugal;
- **12th February 2015:** Speed dating com biólogos evolutivos – Darwin Day Celebrations, Palácio de Cristal, Porto, Portugal;
- **May 2013:** “Italian Gekko Expedition-Madagascar 2013”: <http://expedition.italiangekko.net/index.php/it/madagascar-2013>;
- **20th May 2012:** “Decifrare la diversità criptica dei gechi del gruppo *Uroplatus ebenau*, e descrizione di una nuova specie: *Uroplatus finiaivana*” – Italian Gekko Meeting 2012, Sisten Irish Pub, Novellara (RE), Italy.
- **3rd July 2010:** “La Salamandra atra nelle Prealpi Orobiche” – Coca mountain dew, Valbondione (BG), Italy;
- **28th April 2009:** “The role of phylogenetic and phylogeographic analyses in the conservation of Madagascan amphibians”, during the “Blog the frog meeting” organized for the SAVE THE FROGS DAY 2009 – Museo Regionale di Scienze Naturali di Torino, Italy;
- **25th April 2009:** “Current knowledge on *Pelobates fuscus* genetic diversity” – Giardino Botanico Litoraneo del Veneto, Rosolina Mare (Ro), Italy;
- **25th April 2009:** “Methods for the individual identification of *Pelobates fuscus*” – Giardino Botanico Litoraneo del Veneto, Rosolina Mare (Ro), Italy.
- **24th February 2005:** “Conservazione di anfibio iconico: *Pelobates fuscus*” – Museo della Val Cavallina (Bg), Italy;
- **From 2004:** Visiting primary schools to promote the importance of amphibians conservation for our ecosystems.

## Media

- **February 2019:** Amphibian microbiome linked to climate (A.Jani, Nature Ecology & Evolution News & Views)
- **August 2018:** Das aves aos anfíbios (National Geographic Portuguese edition).

## Articles in peer-reviewed journals:

- A68.** El Cadi, R.A., E.-M. Laghzaoui, **A. Crottini**, T. Slimani, J. Bosch, E.H. EL Mouden (2019): Occurrence of *Batrachochytrium dendrobatidis* in the Tensift region, with comments on its spreading in Morocco. – *Acta Herpetologica* 14(2): 109–105. DOI: 10.13128/a\_h-7748. **IF= 0.722**
- A67.** Dubos, N., L. Morel, **A. Crottini**, K. Freeman, J. Honoré, H. Lava, J. Noël, I. Porton, G. Rendriendry, G.M. Rosa, F. Andreone (2019): High interannual variability of a climate-driven amphibian community in a seasonal rainforest. – *Biodiversity and Conservation* 29: 893–912. Doi: <https://doi.org/10.1007/s10531-019-01916-3> **IF= 3,142**
- A66.** Guarino, F.M., **A. Crottini**, M. Mezzasalma, J.E. Randrianirina, F. Andreone (2019): A skeletochronological estimate of age and growth in a large *Mantidactylus* riparian frog from Madagascar (Anura: Mantellidae). – *Herpetozoa* 32: 39–44. DOI 10.3897/herpetozoa.32.e35576. **IF= 0,540**
- A65.** **Crottini, A.**, P. Orozco-terWengel, F.C.E. Rabemananjara, J.S. Hauswaldt, M. Vences (2019): Mitochondrial introgression, color pattern variation and severe demographic bottlenecks in three species of Malagasy poison frogs, genus *Mantella*. – *Genes* 10: 317. Doi:10.3390/genes10040317. **IF= 3.331**
- A64.** Scherz, M.D., C.R. Hutter, A. Rakotoarison, J.C. Riemann, M.-O. Rödel, S.H. Ndirantsoa, J. Glos, S. Hyde Roberts, **A. Crottini**, M. Vences & F. Glaw (2019): Morphological and ecological convergence at the lower size limit for vertebrates highlighted by five new miniaturised microhylid frog species from three different Madagascan genera. – *PLoS One* 14(3): e0213314. <https://doi.org/10.1371/journal.pone.0213314>. **IF= 2.766**
- A63.** Licata, F., G.F. Ficetola, K. Freeman, R.H. Mahasoa, V. Ravololonarivo, J.F. Solofo Niaina Fidy, A.B. Koto-Jean, E.N. Rasoanomenjanahary, F. Andreone, **A. Crottini** (2019): Abundance, distribution and spread of the invasive Asian toad *Duttaphrynus melanostictus* in eastern Madagascar. – *Biological Invasions* 21(5): 1615–1626. <https://doi.org/10.1007/s10530-019-01920-2> **IF= 3.054**
- A62.** Kueneman, J.G., M.C. Bletz, V McKenzie, C.G. Becker, M. Joseph, J.G. Abarca, H. Archer, A. Arellano, A. Bataille, M. Becker, L. Belden, **A. Crottini**, R. Geffers, C.F.B. Haddad, R.N. Harris, W. Holden, M. Hughey, M. Jarek, P. Kearns, J.L. Kerby, J. Kielgast, A. Kurabayashi, A. Longo, A. Loudon, D. Medina, J.J. Nuñez, R.G.B. Perl, A. Pinto-Tomás, F.C.E. Rabemananjara, E.A. Rebollar, A. Rodríguez, L. Rollins-Smith, R. Stevenson, C.C. Tebbe, G. Vargas Asensio, B. Walden, J.B. Walke, S.M. Whitfield, K. Zamudio, I. Zúñiga Chaves, D.C. Woodhams, M. Vences (2019): Community richness of amphibian skin bacteria correlates with bioclimate at the global scale. – *Nature Ecology & Evolution* 3: 381–389. <https://doi.org/10.1038/s41559-019-0840-3>.
- A61.** Cocca, W., G.M. Rosa, F. Andreone, G. Aprea, P. Eusebio Bergò, F. Mattioli, V. Mercurio, J.E. Randrianirina, D. Rosado, M. Vences, **A. Crottini** (2018): The herpetofauna (Amphibia, Crocodylia, Squamata, Testudines) of the Isalo Massif, Southwest Madagascar: combining morphological, molecular and museum data. – *Salamandra* 54(3): 178–200. **IF= 1,250**
- A60.** Hawlitschek, O., M.D. Scherz, B. Ruthensteiner, **A. Crottini**, F. Glaw (2018): Computational molecular species delimitation and taxonomic revision of the gecko genus *Ebenavia* Boettger, 1878. – *The Science of Nature* 105: 49. **IF= 1,789**

- A59.** Fisher, M.C., P. Ghosh, J.M.G. Shelton, K. Bates, L. Brookes, C. Wierzbicki, G.M. Rosa, R.A. Farrer, D.M. Aanensen, M. Alvarado-Rybak, A. Bataille, L. Berger, S. Böll, J. Bosch, F.C. Clare, E. Courtois, **A. Crottini**, A.A. Cunningham, T.M. Doherty-Bone, F. Gebresenbet, D.J. Gower, J. Höglund, T.Y. James, T.S. Jenkinson, T.A. Kosch, C. Lambertini, A. Laurila, C.-F. Lin, A. Loyau, A. Martel, S. Meurling, C. Miaud, P. Minting, S. Ndriantsoa, S.J. O'Hanlon, F. Pasmans, T. Rakotonanahary, F.C.E. Rabemananjara, L.P. Ribeiro, D.S. Schmeller, B.R. Schmidt, L. Skerratt, F. Smith, C. Soto-Azat, G. Tessa, L.F. Toledo, A. Valenzuela-Sánchez, R. Verster, J. Vörös, B. Waldman, R.J. Webb, C. Weldon, E. Wombwell, K.R. Zamudio, J.E. Longcore, T.W.J. Garner (2018): Development and worldwide use of non-lethal, and minimal population-level impact, protocols for the isolation of amphibian chytrid fungi. – *Nature Scientific Reports* 8: 7772. **IF= 5,228**
- A58.** Bellati, A., M.D. Scherz, S. Megson, S. Hyde Roberts, F. Andreone, G.M. Rosa, J. Noël, J.E. Randrianirina, M. Fasola, F. Glaw, **A. Crottini** (2018): Resurrection and re-description of *Plethodontohyla laevis* (Boettger, 1913) and transfer of *Rhombophryne alluaudi* (Mocquard, 1901) to the genus *Plethodontohyla* (Amphibia, Microhylidae, Cophylinae). – *Zoosystematics and Evolution* 94(1): 109–135. **IF= 0,931**
- A57.** Penny, S.G., **A. Crottini**, F. Andreone, A. Bellati, L.M.S. Rakotozafy, M.W. Holderied, C. Schwitzer, G.M. Rosa (2017): Combining old and new evidence to increase the known biodiversity value of the Sahamalaza Peninsula, Northwest Madagascar. – *Contribution to Zoology* 86(4): 273-296. **IF= 1,844**
- A56.** Rakotoarison, A, M.D. Scherz, F. Glaw, J. Köhler, F. Andreone, M. Franzen, J. Glos, O. Hawlitschek, T. Jono, A. Mori, S.H. Ndriantsoa, N. Raminosoa, J.C. Riemann, M.-O. Rödel, G.M. Rosa, D.R. Vieites, **A. Crottini**, M. Vences (2017): Describing the smaller majority: integrative taxonomy reveals twenty-six new species of tiny microhylid frogs (genus *Stumpffia*) from Madagascar. – *Vertebrate Zoology* 67(3): 271-398. **IF= 0,850**
- A55.** Scherz, M.D., M. Vences, A. Rakotoarison, F. Andreone, J. Köhler, F. Glaw, **A. Crottini** (2017): Lumping or splitting in the Cophylinae (Anura: Microhylidae) and the need for a parsimony of taxonomic changes: A response to Peloso et al. (2017). – *Salamandra* 53(3): 479-483. **IF= 1,250**
- A54.** Mulder, K.P., D.J. Harris, **A. Crottini**, E.H.C. Grant, R.C. Fleischer, A.E. Savage (2017): Evolutionary dynamics of an expressed MHC class IIβ locus in the Ranidae (Anura) uncovered by genome walking and high-throughput amplicon sequencing. – *Developmental and Comparative Immunology* 76: 177-188. **IF= 3,218**
- A53.** Tessa, G., **A. Crottini**, C. Giacoma, F.M. Guarino, J.E. Randrianirina, F. Andreone (2017): Comparative longevity and age at sexual maturity in twelve rainforest frogs of the genera *Boophis*, *Gephyromantis* and *Mantidactylus* (Anura: Mantellidae) from Madagascar. – *Phyllomedusa* 16(1): 13-21. **IF= 0,350**
- A52.** Vences, M., J.L. Brown, A. Lathrop, G.M. Rosa, A. Cameron, **A. Crottini**, R. Dolch, D. Edmonds, K. Freeman, F. Glaw, L.L. Grismer, S. Litvinchuk, M. Milne, M. Moore, J.F. Solofo, J. Noël, T.Q. Nguyen, A. Ohler, C. Randrianantoandro, A.P. Raselimanana, P. Van Leeuwen, G.O.U. Wogan, T. Ziegler, F. Andreone, R.W. Murphy (2017): Tracing a toad invasion: Lack of mitochondrial DNA variation, haplotype origins, and potential distribution of introduced *Duttaphrynus melanostictus* in Madagascar. – *Amphibia-Reptilia* 38: 197-207. **IF= 1,910**
- A51.** Vences, M., J. Köhler, M. Pabijan, M. Bletz, P.-S. Gehring, O. Hawlitschek, A. Rakotoarison, F.M. Ratsoavina, F. Andreone, **A. Crottini**, F. Glaw (2017): Taxonomy and geographic distribution of Malagasy frogs of the *Gephyromantis asper* clade, with description of a new subgenus and revalidation of *Gephyromantis ceratophrys*. – *Salamandra* 53(1): 77-98. **IF= 1,250**
- A50.** Strzafa, T., R. Grochowalska, B. Najbar, **A. Crottini**, B. Kosowska, D. Jablonski (2017): Complete mitochondrial genome of the Italian slow worm *Anguis veronensis* Pollini, 1818, and its comparison with mitogenomes of other *Anguis* species. – *Mitochondrial DNA Part B: Resources* 2(1): 71-72. **IF= 0,490**
- A49.** Hawlitschek, O., E.F.A. Toussaint, P.-S. Gehring, F.M. Ratsoavina, N. Cole, **A. Crottini**, J. Nopper, A.W. Lam, M. Vences, F. Glaw (2017): Gecko phylogeography in the Western Indian Ocean region: The oldest clade of *Ebenavia inunguis* lives on the youngest island. – *Journal of Biogeography* 44: 409–420. **IF= 3,997**
- A48.** Ceriaco, L.M.P., E.E. Gutiérrez, A. Dubois, ... **A. Crottini**, ... Z.M.S. de Lucena (2016): Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. – *Zootaxa* 4196(3): 435–445. **IF= 0,994**
- A47.** Rosa G.M., P. Eusebio Bergò, F. Andreone, **A. Crottini**, L. Jasper, C.J. Gardner (2016): New insights on the feeding behaviour of *Madagascarophis meridionalis* Domergue, 1987 from Isalo, Madagascar. – *Herpetozoa* 29: 103-107. **IF= 0,540**
- A46.** Scherz, M.D., F. Glaw, M. Vences, F. Andreone, **A. Crottini** (2016): Two new species of terrestrial microhylid frogs (Microhylidae: Cophylinae: *Rhombophryne*) from northeastern Madagascar – *Salamandra* 52(2): 91-106. **IF= 1,250**
- A45.** Andreone, F., F.M. Angelici, P. Carlino, S. Tripepi, **A. Crottini** (2016): The common chameleon *Chamaeleo chamaeleon* in southern Italy: evidence for allochtony of populations in Apulia and Calabria (Reptilia: Squamata: Chamaeleonidae). – *The Italian Journal of Zoology* 83(3): 372-381. **IF= 0,814**
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- B16.** Andreone F., **A. Crottini**, G.M. Rosa, A. Rakotoarison, M.D. Sherz, A.P. Raselimanana (2018): Les amphibiens du Nord de Madagascar. Antananarivo, Madagascar, Association Vahatra. 359 pp.; ISBN: 978-2-9538923-7-6.
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- C12.** Ndriantsoa, S., A. Rakotoarison, T. Rakotonanahary, F. Andreone, **A. Crottini**, J. Dawson (2018): A Conservation Strategy for the Amphibians of Madagascar: Where are we now? – *FrogLog* 120 26(1): 11-12.
- C11.** Andreone, F., **A. Crottini**, H. Randriamahazo (2016): Madagascar au secours de ses grenouilles. – *Pour la Science (french edition of Scientific American)* 461: 50-56.
- C10.** Rosa GM, Cadle JE, Crottini A, Dawson J, Edmonds D, Fisher MC, Garcia G, Glaw F, Glos J, Harris RN, Köhler J, Rabemananjara F, Rabesihanaka S, Rabibisoa N, Randrianantoandro JC, Raselimanana AP, Raxworthy CJ, Razafindraibe H, Vallan D, Vences M, Weldon C, Wright PC, Andreone F (eds.) (2015). ACSAM2, A Conservation Strategy for the Amphibians of Madagascar 2: abstract book. Museo Regionale di Scienze Naturali, Regione Piemonte, Torino, pp. 30.
- C9.** Bletz M.C., G.M. Rosa, F. Andreone, E.A. Courtois, D.S. Schmeller, N. Rabibisoa, F.C.E. Rabemananjara, L. Raharivololoniaina, M. Vences, C. Weldon, D. Edmonds, C. Raxworthy, R.N. Harris, M.C. Fisher, **A. Crottini** (2015): Widespread presence of the pathogenic fungus *Batrachochytrium dendrobatidis* in wild amphibian communities in Madagascar. – *FrogLog* 114 23(2): 74.
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- C3.** Scanarini, E., **A. Crottini**, F. Andreone (2014): Spedizione di ricerca nella Foresta di Betampona. – *Italian gekko Magazine* 4: 24-40.
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## Software applications

- D2.** Muñoz-Pajares, A.J., F. Belluardo, W. Cocca, **A. Crottini**: PipeLogeny: An automated pipeline for phylogenetic reconstruction. – <https://sites.google.com/site/pipelogenydownload/>.
- D1.** Archer, J., **A. Crottini**, A. Muñoz-Merida: BAligner: Block Aligner Version: 0.1. – <http://phylogenetictrees.com/baligner.php>

I presented my work in several national and international meetings:

- Cocca, W., **A. Crottini** "Digging into the diversification of the mantellid frogs of Madagascar (Anura: Mantellidae)"  
Oral Communication at "IX World Congress of Herpetology", Dunedin, New Zealand, 5th-10th January 2020
- **Crottini, A.**, B. Santos, M.D. Scherz, F. Glaw, F. Andreone, M. Vences "Recent advances on the taxonomy, systematics and biology of cophiline frogs of the genus *Plethodontohyla*"  
Oral Communication at "IX World Congress of Herpetology", Dunedin, New Zealand, 5th-10th January 2020
- **Crottini, A.**, F. Licata, K. Freeman, J. Readon, F. Andreone "The invasion of the Asian Toad in Madagascar"  
Oral Communication at "IX World Congress of Herpetology", Dunedin, New Zealand, 5th-10th January 2020
- Ferreira, M. R., **A. Crottini**, W. Cocca, F. Belluardo, S. B. Carvalho "Incorporating evolutionary history into conservation planning: the case of Madagascar's mantellids"  
Oral Communication at "XX European Congress of Herpetology", Milano, Italy, 2th-6th September 2019
- Andreone, F., J. Dawson, S. Ndriantsoa, A. Rakotoarison, T. Rakotonanahary, **A. Crottini** "A conservation strategy for the amphibians of Madagascar: old and new threats in an iconic country"  
Oral Communication at "XX European Congress of Herpetology", Milano, Italy, 2th-6th September 2019
- Belluardo, F., D. D. Díaz Quirós, J. Lobon-Rovira, G. M. Rosa, M. Rasoazanany, F. Andreone, **A. Crottini** "Uncovering the herpetofauna of the andringitra massif (south-east Madagascar): molecular characterization and biodiversity patterns";  
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- Hyde Roberts, S., M. Sannolo, H. Longosoa, **A. Crottini** "A herpetological assessment of the littoral forests of Sainte Luce (southeastern Madagascar): Using genetic tools to ascertain the true level of biodiversity (PTS/171)";  
Poster Communication at "56th Annual Meeting of the Association for Tropical Biology and Conservation", Antananarivo, Madagascar, 30<sup>th</sup> July- 3<sup>rd</sup> August 2019.
- **Crottini, A.**, F. Belluardo, W. Cocca, J. Munoz-Pajares, F. Andreone "A new multilocus phylogeny of the endemic Scincinae lizards of Madagascar reveals their biogeographic history and provides insight into their fossorial evolution";  
Poster Communication at "III International Conference Island Biology", Saint-Denis, La Réunion, 8<sup>th</sup>-13<sup>th</sup> July 2019.
- Santos, B., M. Vences, W. Cocca, T. Rakotonanahary, S. Ndriantsoa, F. Licata, J. Noël, J. F. Solofo Niaina Fidy, **A. Crottini** "Characterization of the skin and gut communities of the invasive Asian Toad in Madagascar and comparison with a native species";  
Poster Communication at "III International Conference Island Biology", Saint-Denis, La Réunion, 8<sup>th</sup>-13<sup>th</sup> July 2019.
- Santos, B., **A. Crottini** "Skin and gut microbiomes show different patterns in two amphibian species exposed to different water sources";  
Poster Communication at "1th BIODIV Annual Meeting", Vairão, Portugal, 2<sup>nd</sup>- 4<sup>th</sup> May 2019.
- Belluardo, F., J. Muñoz-Pajares, W. Cocca, F. Andreone, **A. Crottini** "A multilocus phylogeny of the endemic Scincinae lizards of Madagascar reveals their biogeographic history and provides insights into their fossorial evolution";  
Poster Communication at "1th BIODIV Annual Meeting", Vairão, Portugal, 2<sup>nd</sup>- 4<sup>th</sup> May 2019.
- Cocca, W., **A. Crottini** "Digging into the diversification of the mantellid frogs of Madagascar (Anura: Mantellidae)";  
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- Scherz, M.D., C.R. Hutter, **A. Crottini**, A. Rakotoarison, H. Philippe, F. Glaw & M. Vences "A taxonomic renaissance in the narrowmouthed frogs of Madagascar is opening a new model system to understand ecomorphological evolution in amphibians";  
Oral Communication at "111th Annual Meeting of the German Zoological Society", Greifswald, Germany, 10<sup>th</sup> - 15<sup>th</sup> September 2018.
- Licata, F., G.F. Ficetola, K. Freeman, F. Andreone, **A. Crottini** "Australia 2.0? The beginning of an invasion and the preliminary assessment of the factors influencing its spread";  
Poster Communication at "NEOBIOTA 2018 – 10<sup>th</sup> International Conference on Biological Invasions: New Directions in Invasion Biology", Dun Laoghaire, Dublin, Ireland, 4<sup>th</sup> - 7<sup>th</sup> September 2018. Program and Abstract: 90.
- Santos B, M. Vences, W. Cocca, T. Rakotonanahary, S. Ndriantsoa, F. Licata, J. Noël, J.F. Solofo Niaina Fidy, **A. Crottini** "Characterization of the bacteria community of the invasive Asian Toad (*Duttaphrynus melanostictus*) in Madagascar and comparison with a native species ";  
Poster Communication at "NEOBIOTA 2018 – 10<sup>th</sup> International Conference on Biological Invasions: New Directions in Invasion Biology", Dun Laoghaire, Dublin, Ireland, 4<sup>th</sup> - 7<sup>th</sup> September 2018. Program and Abstract: 90.
- **Crottini, A.**, G.M. Rosa, S. Hyde Roberts, M.D. Scherz, F. Glaw, M. Vences, F. Andreone "Field investigations, growing museum collections and increasing availability of molecular data and sequencing technologies are contributing to understand the evolution of the herpetological diversity of Madagascar";  
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Poster Communication at "AGA President's Symposium – Origins of Adaptive Radiation", Waimea, Hawaii, USA, 22<sup>nd</sup> - 25<sup>th</sup> July 2018. Program and Abstract: 4.
- Chiodi, A., A. Bellati, G. Bernini, A. Colombo, P. Bonfanti, E. Raimondi, **A. Crottini**, M. Fasola " Molecular detection of hybridogenetic pattern in the *Pelophylax esculentus* complex in Italy ";  
Oral Communication at the "7<sup>th</sup> Congress ISEB – Italian Society for Evolutionary Biology", Roma, Italy, 28<sup>th</sup> - 31<sup>st</sup> August 2017. Program and Abstract: 78.
- **Crottini, A.**, D. Salvi, G.M. Rosa, D.J. Harris, F. Andreone "The rainforest fragment of Betampona Strict Nature Reserve (Eastern Madagascar): a hotspot of herpetological biodiversity";  
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- Bellati, A., M.D. Scherz, F. Andreone, F. Glaw, G.M. Rosa, **A. Crottini** "The discovery of a candidate new species in Eastern Madagascar helps clarify some aspects of Cophylinae (Anura: Microhylidae) taxonomy"; Poster Communication at "TiBE-2016, Trends in Biodiversity and Evolution (Tropical Biodiversity)", Vairao (Portugal), 28<sup>th</sup>-29<sup>th</sup> Novembre 2016. Program and Abstract: 61.
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- Belluardo, F., **A. Crottini** "A proposal to study colonization history and within-island diversification to unveil the micro- and macro-evolution processes characterizing Madagascar's biodiversity"; Poster Communication at "TiBE-2016, Trends in Biodiversity and Evolution (Tropical Biodiversity)", Vairao (Portugal), 28<sup>th</sup>-29<sup>th</sup> Novembre 2016. Program and Abstract: 35.
- **Crottini, A.**, M.D. Scherz, A. Rakotoarison, F. Glaw, F. Andreone, M. Vences "Generally small, localized and discreet: an overview of the systematic review of the cophylinae microhylids (Anura: Microhylidae) of Madagascar"; Oral Communication at "TiBE-2016, Trends in Biodiversity and Evolution (Tropical Biodiversity)", Vairao (Portugal), 28<sup>th</sup>-29<sup>th</sup> Novembre 2016. Program and Abstract: 26.
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- **Crottini, A.**, J. Dawson, J.P. Lewis, F. Rabemananjara, N. Rabibisoa, T. Rakotonahary, F. Andreone "A conservation strategy for the amphibians of Madagascar: An overview of the main threats and of the planned conservation activities"; Oral Communication at the "2nd International Conference on Island Evolution, Ecology and Conservation: Island Biology 2016", Angra do Heroísmo, Azores, Portugal, 18<sup>th</sup>-22<sup>nd</sup> July 2016. Program and Abstract: Pp. 270-271.  
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- Freeman, K.L.M., J. Noel, G.M. Rosa, **A. Crottini**, N. Dubos, M. Fourrier, F. Andreone "Madagascar Fauna and Flora Group's amphibian conservation research in the Atsinanana Region, eastern Madagascar." Oral Communication at the "A Conservation Strategy for the Amphibian of Madagascar 2<sup>nd</sup> (ACSAM2)", Ranomafana (Madagascar), 18<sup>th</sup> -22<sup>nd</sup> November 2014.  
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- Rabemananjara, F.C.E., S. Rabesihanaka, E. Robsomanitrondrasana, H. Randrianiazahana, D. Raharinjanahary, N. Rabibisoa, H. Randrianasolo, T. Rakotonahary, F. Andreone, M. Betz, R.N. Harris, **A. Crottini**, G.M. Rosa "The disease detection and mitigation in Madagascar". Oral Communication at the "A Conservation Strategy for the Amphibian of Madagascar 2<sup>nd</sup> (ACSAM2)", Ranomafana (Madagascar), 18<sup>th</sup> -22<sup>nd</sup> November 2014  
In: Rosa GM, Cadle JE, Crottini A, Dawson J, Edmonds D, Fisher MC, Garcia G, Glaw F, Glos J, Harris RN, Koehler J, Rabemananjara F, Rabesihanaka S, Rabibisoa N, Randrianantoandro JC, Raselimanana AP, Raxworthy CJ, Razafindralibe H, Vallan D, Vences M, Weldon C, Wright PC, Andreone F (eds.) (2015). ACSAM2, A Conservation Strategy for the Amphibians of Madagascar 2: abstract book. Museo Regionale di Scienze Naturali, Regione Piemonte, Torino, pp. 30. Program and Abstract: 23.
- Bellati, A., D. Pellitteri, Rosa, W. Cocca, **A. Crottini**, M. Fasola "First evidences of complex phylogeographic history of Italian populations of the Moorish gecko *Tarentola mauritanica* (Linnaeus, 1758) revealed by fine scale molecular approach." Oral Communication at the "X National Congress of the Societas Herpetologica Italica", Genova (Italia), 15<sup>th</sup> -18<sup>th</sup> October 2014.
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- Maia, J.P., **A. Crottini**, D.J. Harris "Hiding deep in the blood: a survey of hemoparasites of wild endemic reptiles from Madagascar"  
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- Kieren, S., **A. Crottini**, P. de Pous, & M. Veith "Phylogeny and phylogeography of the syrian spadefoot toad (*Pelobates syriacus*)"  
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Oral Communication at the "4<sup>th</sup> Congress ISEB – Italian Society for Evolutionary Biology", Milano, Italy, 2<sup>nd</sup> - 4<sup>th</sup> September 2010. Program and Abstract: 33.
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Oral Communication at "70° Congresso Unione Zoologica Italiana", Rapallo, Genova, Italia, 21<sup>st</sup> -24<sup>th</sup> September 2009. Program and Abstract: 24.
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- Barbuto, M., F. Bargna, S. Fontana, M. Lazzaro, A. Galimberti, **A. Crottini**, E. Ferri & M. Casiraghi "Cosa stiamo mangiando? Resoconto della caratterizzazione molecolare di alcuni prodotti ittici mediante DNA barcoding";  
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- Galimberti, A., M. Barbuto, **A. Crottini**, S.G. Baccei, V. Golin & M. Casiraghi "Tecniche molecolari utilizzabili per la conservazione di Psittaciformi di interesse commerciale";  
Oral Communication at the "69° Congresso Unione Zoologica Italiana", Senigallia, Ancona, Italia, 22<sup>nd</sup> -25<sup>th</sup> September 2008. Program and Abstract: 104-105.
- **Crottini, A.**, R. Marotta, M. Casiraghi & M. Ferraguti "Lo strano caso di *Tubifex tubifex*: un'indagine del polimorfismo morfologico e molecolare del suo complesso di specie";  
Oral Communication at the "I Incontro Congiunto di BioSistemistica. Gli strumenti della Biosistemistica moderna: dalla morfologia allo studio dei genomi", Milano, Italia, 5<sup>th</sup> -6<sup>th</sup> June 2008. Program and Abstract: 5.
- **Crottini, A.**, Y. Chiari, V. Mercurio, A. Meyer, M. Vences & F. Andreone "Comparative mitochondrial variability in two microendemic and critically endangered Madagascan frogs, *Mantella expectata* and *Scaphiophryne gottlebei* inside and outside the Isalo National Park";  
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- Marotta, R., **A. Crottini** & M. Ferraguti "A preliminary study on the genetic variability of *Tubifex tubifex* populations (Tubificidae: Clitellata) from the Lambro River (Milan), Italy";  
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- **Crottini, A.**, F. Andreone, J. Kosuch, L.J. Borkin, S. N. Litvinchuk, C. Eggert & M. Veith "Phylogeography of the common spadefoot toad (*Pelobates fuscus*) based on Cyt b mitochondrial gene";  
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- **Crottini, A.** & F. Andreone "Volunteering to monitor an isolated population of *Pelobates fuscus* in NW Italy";  
Poster at "VI Congresso Nazionale della Societas Herpetologica Italica (SHI)", Roma, Italia, 27<sup>th</sup> September-1<sup>st</sup> October 2006. Program and Abstract: 169-170.

## Described Taxa

### Squamata

- *Ebenavia robusta* Hawlitschek, Scherz, Ruthensteiner, Crottini & Glaw, 2018
- *Ebenavia tuelinae* Hawlitschek, Scherz, Ruthensteiner, Crottini & Glaw, 2018
- *Ebenavia safari* Hawlitschek, Scherz, Ruthensteiner, Crottini & Glaw, 2018
- *Paragehyra felicitae* Crottini, Harris, Miralles, Glaw, Jenkins, Randrianantoandro, Bauer & Vences, 2015
- *Paragehyra austini* Crottini, Harris, Miralles, Glaw, Jenkins, Randrianantoandro, Bauer & Vences, 2015
- *Brookesia bruno* Crottini, Miralles, Glaw, Harris, Lima & Vences, 2012
- *Uroplatus finivana* Ratsoavina, Louis Jr, Crottini, Randrianiana, Glaw & Vences, 2011
- *Phelsuma gouldi* Crottini, Gehring, Glaw, Harris, Lima & Vences, 2011

### Amphibia

- *Mini scule* Scherz et al., 2019
- *Mini ature* Scherz et al., 2019
- *Mini mum* Scherz et al., 2019
- *Rhombophryne proportionalis* Scherz et al., 2019
- *Anodonthyla eximia* Scherz et al., 2019
- *Stumpffia angeluci* Rakotoarison et al., 2017
- *Stumpffia huwei* Rakotoarison et al., 2017
- *Stumpffia iharana* Rakotoarison et al., 2017
- *Stumpffia larinki* Rakotoarison et al., 2017
- *Stumpffia maledicta* Rakotoarison et al., 2017
- *Stumpffia mamitika* Rakotoarison et al., 2017
- *Stumpffia sorata* Rakotoarison et al., 2017
- *Stumpffia yanniki* Rakotoarison et al., 2017
- *Stumpffia contumelia* Rakotoarison et al., 2017
- *Stumpffia obscoena* Rakotoarison et al., 2017
- *Stumpffia davidattenboroughi* Rakotoarison et al., 2017
- *Stumpffia meikeae* Rakotoarison et al., 2017
- *Stumpffia achillei* Rakotoarison et al., 2017
- *Stumpffia analanjirofo* Rakotoarison et al., 2017
- *Stumpffia diutissima* Rakotoarison et al., 2017
- *Stumpffia edmondsi* Rakotoarison et al., 2017
- *Stumpffia fusca* Rakotoarison et al., 2017
- *Stumpffia jeannoeli* Rakotoarison et al., 2017
- *Stumpffia nigrorubra* Rakotoarison et al., 2017
- *Stumpffia pardus* Rakotoarison et al., 2017
- *Stumpffia betampona* Rakotoarison et al., 2017
- *Stumpffia dolchi* Rakotoarison et al., 2017
- *Stumpffia garraffoi* Rakotoarison et al., 2017
- *Stumpffia makira* Rakotoarison et al., 2017
- *Stumpffia miovaova* Rakotoarison et al., 2017
- *Stumpffia spandei* Rakotoarison et al., 2017
- *Rhombophryne botabota* Scherz, Glaw, Vences, Andreone & Crottini, 2016
- *Rhombophryne savaka* Scherz, Glaw, Vences, Andreone & Crottini, 2016
- *Cophyla maharipeo* Rakotoarison, Crottini, Müller, Rödel, Glaw & Vences 2015
- *Cophyla noromalalae* Rakotoarison, Crottini, Müller, Rödel, Glaw & Vences 2015
- *Cophyla puellarum* Rakotoarison, Crottini, Müller, Rödel, Glaw & Vences 2015
- *Platypelis karenae* Rosa, Crottini, Noël, Rabibisoa, Raxworthy & Andreone, 2014
- *Boophis ankafensis* Penny, Andreone, Crottini, Holderied, Rakotozafy, Schwitzer & Rosa, 2014
- *Gephyromantis atsingy* Crottini, Glaw, Casiraghi, Jenkins, Mercurio, Randrianantoandro, Randrianirina & Andreone, 2011
- *Boophis quasiboehmei* Vences, Köhler, Crottini & Glaw, 2010
- *Blommersia angolafa* Andreone, Rosa, Noël, Crottini, Vences & Raxworthy, 2010

### Higher classification

- *Mini* nov. gen. Scherz, Hutter, Rakotoarison, Riemann, Rödel, Ndriantsoa, Glos, Hyde Roberts, Crottini, Vences, Glaw, 2019
- *Asperomantis* nov. subgen. Vences, Köhler, Pabijan, Bletz, Gehring, Hawlitschek, Rakotoarison, Ratsoavina, Andreone, Crottini & Glaw, 2016
- *Anilany* nov. gen. Scherz, Vences, Rakotoarison, Andreone, Köhler, Glaw & Crottini, 2016

### Resurrected taxa

- *Ebenavia boettgeri* Boulenger, 1885 **Bona species** Hawlitschek, Scherz, Ruthensteiner, Crottini & Glaw, 2018
- *Plethodontohyla laevis* (Boettger, 1913) **Bona species** Bellati, Scherz, Megson, Hyde Roberts, Andreone, Rosa, Noël, Randrianirina, Fasola, Glaw & Crottini, 2018
- *Gephyromantis ceratophrys* (Ahl, 1929) **Bona species** Vences, Köhler, Pabijan, Bletz, Gehring, Hawlitschek, Rakotoarison, Ratsoavina, Andreone, Crottini & Glaw, 2016
- *Anguis veronensis* Pollini, 1818 **Bona species** Gvoždík, Benkovský, Crottini, Bellati, Moravec, Romano, Sacchi, Jandzik, 2013

## Research-related skills

Since my undergraduate studies, with a growing degree of independence and more responsibilities over the years, I have been involved in the following tasks and developed the related skills, necessary to lead a research project:

- Define goals and identify the most suitable tools and techniques to achieve them;
- Design feasible experimental plans, according to the budget and time available;
- Perform experiments and analyse resulting data;
- Organize fieldwork expeditions in remote areas of the world;
- Produce regular reports and present/publish data.

## Managing and Communication skills

Beside the abovementioned skills, during the years I also acquired several other managing and communication skills, including:

- Supervise, train and coordinate students, technicians and junior members;
- Maintain and upgrade instrumentation;
- Order management and processing;
- Budget administration;
- Write grant applications, papers and reports;
- Present results in national/international meetings and in internal progress reports.

## Technical research-related skills

During my studies and postdoctoral work I have been focused on the study of animal taxonomy and systematics. I am an evolutionary biologist interested in the study of species formation and differentiation, and I'm using the **amphibians and reptiles of Madagascar** as a model system. I have a solid fieldwork experience in Madagascar, where I have organized several **expeditions**, which are a vital component of my research and are essential for the development of most of my research projects. I am broadly interested in the evolution of Madagascar megadiversity and my main expertise is on:

**1) Taxonomy and Systematics of amphibians and reptiles of Madagascar.** I have an in-depth knowledge of the incredibly rich herpetofauna of Madagascar. Many **new species** have been described in the last thirty years, but we are still far from having a complete list of the amphibians and reptile species inhabiting Madagascar, and even less is known in term of species **distribution**. This work is essential to fill the knowledge gap on the least known vertebrate groups of the island, their diversity, phylogenetic relationships and distribution. Generating this baseline knowledge is essential to understand the broad pattern of species diversification across the island, the first step to uncover the evolutionary history of Madagascar's megadiversity.


**2) Biogeography and evolution of Madagascar biodiversity.** Madagascar is an ideal evolutionary laboratory where to study the patterns and processes of species colonisation and diversification. Most of its extant fauna colonized the island in Cretaceous-Cenozoic times, when the island was already separated from all other landmasses. I am reconstructing a time-calibrated phylogeny, encompassing all vertebrate taxa of the island, to uncover the pattern of continuous speciation through time in Madagascar's vertebrates, and to understand their colonization and diversification processes. The availability of robust **phylogenetic hypotheses**, and reliable **estimates of divergence times**, are crucial to study within-island **species diversification**. I combine traditional **Sanger sequencing**, **ancientDNA** techniques, **whole-transcriptome shotgun sequencing** and the sequencing of **Ultra-Conserved Elements** to obtain robust time-calibrated phylogenetic hypothesis that can be used to study the biogeographic history of the unique **radiations** of Madagascar.

**3) The evolution of the multiple adaptive radiations of Madagascar.** Why some groups of organisms have diversified more than others, at different geographical locations or at different points in time is dependent on numerous factors. Using a differential gene expression analysis combined with the study of the evolution of the life-history traits in a comparative phylogenetic framework, I am studying the role played by a putative **key innovation** in driving the **adaptive radiation** of the **mantellid frogs** of Madagascar. Adaptive radiations in Madagascar are known, among others, in plants (e.g.: Euphorbiaceae, Rubiaceae), insects (e.g.: dung beetles), and many vertebrates (e.g.: tenrecs and lemurs for the mammals, vanga birds, day geckos, pseudoxyrhophiine snakes, mantellid and cophylins frogs). The comparative study of the multiple **adaptive radiations** of Madagascar, will soon allow to test hypotheses on the evolutionary theory of adaptive radiations. I'm interested in identify zones that acted as **sink** (where the first coloniser arrived to Madagascar) and **source** (where the radiation flourished, generating the diversity we see nowadays) of biodiversity across Madagascar.

**4) Rapid assessment and Biodiversity conservation.** Madagascar has an obvious problem in cataloguing its biodiversity and a large proportion of its animal and plant diversity still needs to be identified or described. To boost this process I recently started to test the efficiency of **environmental DNA** in promoting the rapid cataloguing of its vertebrate biodiversity. I am a member of the **IUCN Species Survival Commission Amphibian Specialist Group**, and I am involved in many conservation activities. I have worked on the development and implementation of the first (2006) and the second (2016) **Action Plan** for Amphibian Conservation in Madagascar and since 2010, I am the leading researcher of the **National Monitoring Program** for the early detection of the **emerging infectious disease** caused by the amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) on the island. I recently start to look at patterns of species' distributions in relation to **forest quality** and **carbon mapping data** to help gain deeper understanding of the impact of forest quality and forest structure on faunal diversity and distribution. I am part of the **National Committee** established to fight the spread of the **invasive** Asian toad (*Duttaphrynus melanostictus*). I am studying the role of the toad **microbiome** in the invasive process, and assess the risk of potential transmission of **pathogens and parasites** to the native and endemic amphibian fauna.



Attachment: Maternity leave

S.  R.

MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA  
FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA

**Declaração**

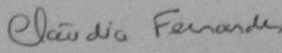
Para os devidos efeitos se declara que ANGELICA CROTTINI concorreu a uma Bolsa de Investigação pelo período de trinta e seis meses, para Pós-Doutoramento na UNIVERSIDADE DO PORTO, que foi considerada favoravelmente.

Esta Bolsa de Investigação, com início em 1 de maio de 2011, inclui seguro, subsídios de deslocação, instalação e manutenção mensal, sendo o seu montante de 17940,00 euros para o último período de doze meses, com início em 1 de outubro de 2013.

Durante o período de 11 de junho de 2011 a 7 de novembro de 2011 a bolseira encontrou-se de licença parental inicial.

Lisboa, 10 de setembro de 2013.

Cláudia Fernandes



Diretora do Departamento de  
Formação dos Recursos Humanos

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Data

19 Aprile 2020

Luogo

Vairão (Portogallo)