

Jean-Pierre Vacher

PhD



BUFO
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Born 13 March 1975

PhD dissertation

Title *Diversification in the Guiana Shield as seen through frogs.*
Years 2013-2017 (defense 23 March 2017)
Supervisors Antoine Fouquet and Christophe Thébaud
University Laboratoire Évolution et diversité biologique, Université Paul Sabatier, Toulouse

Publications

List of publications on [researchgate.net](https://www.researchgate.net)

Recent publications

Vacher, J.P., Kok, P.J.R., Rodrigues, M.T. *et al.* (2017). Cryptic diversity in Amazonian frogs: Integrative taxonomy of the genus *Anomaloglossus* (Amphibia: Anura: Aromobatidae) reveals a unique case of diversification within the Guiana Shield. *Molecular Phylogenetics and Evolution*. 112 (2017): 158-173.

Vacher, J.P., Fouquet, A., Holota, H., Thébaud, C. (2016). The complete mitochondrial genome of *Anomaloglossus baeobatrachus* (Amphibia: Anura: Aromobatidae). *Mitochondrial DNA Part B: Resources* 1 (1): 400-402.

Skills

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|---------------------------------|--|
| Molecular biology | DNA extraction; PCR; Sanger genotyping and sequencing; NGS (Illumina MiSeq and HiSeq). |
| Genetic analysis | Genomes assembly and annotation; DNA Barcoding; phylogenetic analyses; biogeographic analyses; population genetics; species delineation. |
| Statistics | Regular use of ecological statistics tools. |
| GIS | Advanced used with R |
| Photography | Publication of photographs in several books. Portfolio at flickr.com . |
| Bioacoustics | Amphibians and Orthoptera sound analysis with R. |
| Computer skills | |
| Mac OS X | advanced use |
| L ^A T _E X | advanced use |
| | R advanced use |
| | Unix knowledge of basic commands |
| Languages | |
| English | Bilingual |

TOEIC 985/990 (7/8/2015)

Scientific workshops attended during my PhD

- 2015 Bodega Applied Phylogenetics Workshop, Bodega Bay, California
- 2014 Macroecology–Macroevolution Winter School, École nationale supérieure, Paris, France
- 2014 Evolutionary Biology, Guarda, Switzerland
- 2013 Advanced methods in Neotropical biogeography, Kourou, French Guiana

Education

- 2013–2017 **PhD**, *Université Paul Sabatier*, Toulouse, Laboratoire Évolution et Diversité Biologique.
- 2009–2010 **Master “Systématique, Évolution et Paléobiodiversité”, parcours “Expertise Faune Flore”**, *Muséum national d’Histoire naturelle*, Paris, France, Mention “Bien”.
- 1996 **DEUG anglais**, *Université Le Mirail*, Toulouse.
- 1993 **Certificate of attainment, level IV**, *University of London*.
- 1993 **Baccalauréat série D**, *Lycée polyvalent international Victor Hugo*, Colomiers.

Experience

Current and past positions

- 2002–2013 **Study leader**, *Association BUFO, study and conservation of amphibians and reptiles of Alsace*, Strasbourg, France.
 - 2017
 - Monitoring of the yellow-bellied toad through site occupancy method.
 - Surveys of endangered species: Great crested newt, common spadefoot.
 - Elaboration of projects: Regional action plans, Natura 2000 monitoring, Regional red lists.
 - Supervision of Master’s students in the field of conservation biology.
 - 2012–2013 **Scientific collaborator**, *Section of Conservation Biology*, University of Basel, Switzerland.
 - 2017
 - Evaluation of introgression of introduced fire-bellied toad in yellow-bellied toad populations in Lorraine;
 - Genetic structure of populations of the yellow-bellied toad and the great crested newt in Alsace;
 - Phylogeographic characterisation of continental French populations of the green toad;
 - eDNA inventory of the common spadefoot in Alsace.
- Reports (in French) available at bufo-alsace.org

Teaching experience

- 2015–2016 **Master Gestion de la Biodiversité terrestre et aquatique**, *Université Toulouse III, France*.
Sampling techniques for amphibians and reptiles
- 2011–2013 **Master Science du Vivant - Ecophysiologie et éthologie**, *Université de Strasbourg, France*.
Ecology and conservation of amphibians

Volunteer activities

- 2015– **French committee of the IUCN**, Paris.
Member of the species conservation task
- 2006–2011 ; **French Herpetological Society**, Paris.
2015– Board member

Extra professional activities

- Running 10km, half-marathon, and marathon; trail running
- Triathlon M distance