



## CURRICULUM VITAE

### François Rigal, PhD, Assistant Professor

#### Personal information

Date of birth: February 02, 1980

Nationality: French

#### Present address: Université de Pau et des Pays de l'Adour

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#### External collaborator

Centre for Ecology, Evolution and Environmental Changes - Azorean Biodiversity Group - University of Lisbon

#### Current Position

**Since September 2015.** Assistant Professor in the Université de Pau et des Pays de l'Adour (France). UMR UPPA-CNRS 5254 IPREM. Department of Biological Sciences.

#### Skills & Expertise

**Community ecology | Data analysis in ecology | Biological invasions | Ecophylogenetics | Functional diversity | Island Biogeography | Macroecology**

#### Previous Positions Since PhD

**December 2010 – July 2015.** Postdoctoral fellow at the Azorean Biodiversity Group (University of Azores, Portugal). Supervisors: Pr. Paulo A.V. Borges (Univ. of Azores), Pr. Robert Whittaker (Univ. of Oxford) & Dr. Kostas Triantis (Univ. of Athens)

**September 2009 – August 2010.** Assistant lecturer at the University of Pierre and Marie Curie, Paris 6.

#### Education

**2009. PhD in Biology.** Biological Station of Roscoff - CNRS – University of Pierre and Marie Curie, Paris 6

**2005. Master's degree of Biology** Gene, Cell, Development and Evolution. University of Orsay, Paris XI

#### Current Funded Projects

**2019 - 2022. AGRO-ECOSERVICES - Assessing ecosystem services and disservices provided by arthropod species in Azorean agroecosystem.** Funding Institution: Direção Regional da Ciência e Tecnologia - PO AZORES2020. PI: Paulo A.V. Borges (Univ. of Azores)

**2016 - 2019. MACDIV: Macaronesian Islands as a testing ground to assess biodiversity drivers at multiple scales.** Funding Institution: Science and Technology Foundation. PI: Paulo A.V. Borges (Univ. of Azores), Pedro Cardoso (Univ. of Helsinki) & François Rigal (Univ. Pau).

**2016 - 2019. A network of observatories of ecosystems (lakes and peatbogs) sensitive to the climate change in the Pyrenees.** PI: Blas L. Valero-Garcés (Univ. of Zaragoza - CSIC) - INTERREG POCTEFA.

## Current Supervisions

**2018 - 2019.** Co-supervision of the Post-doc Jagoba Malumbres-Olarte with Pr. Paulo A.V. Borges (Univ. of Azores) and Pedro Cardoso (Univ. of Helsinki). Project: Macaronesian Islands as a testing ground to assess biodiversity drivers at multiple scales.

**2017 - 2020.** Co-supervision of the PhD of Etienne Richy with Pr. Béatrice Lauga. PhD project: Role of microbial diversity in the functioning of peatbogs in a context of climate change. Université de Pau et des Pays de l'Adour.

## Editorial Activities

Associate Editor for **Community Ecology** Journal and **PlosOne**

Referee for: *Journal of Natural History, Ecography, Journal of Biogeography, Global Ecology and Biogeography, Continental Shelf Research, PlosOne, Proceedings of the Royal Society of London B, Ecological Indicators, Science of the Total Environment, Biodiversity and Conservation, Science of the Total Environment*

## Teaching Activities

**Since September 2015. Teaching in biostatistics** (Assistant Professor at the Université de Pau et des Pays de l'Adour). Lectures & tutorials for undergraduate sections, 1<sup>st</sup> and 2<sup>nd</sup> year of Master.

**September 2009 – August 2010. Teaching in biostatistics** (Assistant lecturer at the University of Pierre and Marie Curie, Paris 6). Courses for undergraduate sections, 1<sup>st</sup> and 2<sup>nd</sup> year of Master.

**2015 – present. Advanced Courses in the University of Lisbon.** Applied Methods in Community Ecology and Functional Ecology. Co-leader with Pr. Paulo A.V. Borges.

## Scientific Communications

**Selected publications in SCI peer-reviewed journal for the last 5 years (full list available [here](#))**

MATTHEWS, T., BORREGAARD, M., GILLESPIE, C., UGLAND, K., **RIGAL, F.**, KRÜGER, R., MARQUES, R., SADLER, J., BORGES, P.A.V. & WHITTAKER, R.J. (2019) Extension of the gambin model to multimodal species abundance distributions. *Methods in Ecology and Evolution*, 10 (3) 432-437

**RIGAL, F.**, CARDOSO, P., LOBO, J.M., TRIANTIS, K.A., WHITTAKER, R.J. AMORIM, I.R. & BORGES, P.A.V. (2018). Functional traits of indigenous and exotic ground-dwelling arthropods show contrasting responses to land-use change in an oceanic island, Terceira, Azores. *Diversity and Distributions*. 24 (1) 36-47

BORDA-DE-ÁGUA, L., WHITTAKER, R.J., CARDOSO, P., **RIGAL, F.**, SANTOS, A.M.C., AMORIM, I.R., PARMAKELIS, A., TRIANTIS, K.A., PEREIRA, H.M. & BORGES, P.A.V. (2017). Dispersal ability determines the scaling properties of species abundance distributions: a case study using arthropods from the Azores. *Scientific reports*. 7: 3899

PICANÇO, A., **RIGAL, F.**, MATTHEWS, T.J., CARDOSO, P. & BORGES, P.A.V. (2017). Impact of land use change on flower-visiting insect communities on an oceanic island. *Insect Conservation and Diversity*. 10 (3), 211-223

BORREGAARD, M.K., AMORIM, I.R., BORGES, P.A.V., CABRAL, J., FERNANDEZ-PALACIOS, J.M., FIELD, R., HEANEY, L.R., KREFT, H., MATTHEWS, T.J., OLESEN, J.M., PRICE, J., **RIGAL, F.**, STEINBAUER, M., TRIANTIS, K.A., VALENTE, L. & WHITTAKER, R.J. (2017). Oceanic island biogeography through the lens of the General Dynamic Model: assessment and prospect. *Biological reviews*. 92 (2), 830-853

TRIANIS, K.A.\*, **RIGAL, F.\***, PARENT, C., CAMERON, R.A.D., LENZNER, B., PARMAKELIS, A., YEUNG, M.W., IBÁÑEZ, M., ALONSO, M.R., DE FRIAS MARTINS, A.M., TEIXEIRA, D.N.F., GRIFFITHS, O.L., YANES, Y., HAYES, K.A., PREECE, R.C., & COWIE, R.H. (2016). Discordance between morphological and taxonomical diversity: land snails of oceanic archipelagos. *Journal of Biogeography*. 43 (10), 2050–2061 \*Equal contribution

TERZOPOULOU, S., **RIGAL, F.**, WHITTAKER, R.J., BORGES, P.A.V. & TRIANTIS, K.A. (2015). Drivers of extinction: the case of Azorean beetles. *Biology Letters*. 11(6) 20150273

WHITTAKER, R.J., **RIGAL, F.**, BORGES, P.A.V., CARDOSO, P., TERZOPOULOU, S., CASANOVES, F., PLA, L., GUILHAUMON, F., LADLE, R.J. & TRIANTIS, K.A. (2014). Functional biogeography of oceanic islands and scaling of functional diversity in the Azores. *Proceedings of the National Academy of Sciences of USA (PNAS)*. 111 (38) 13709–13714

CARDOSO, P., **RIGAL, F.**, CARVALHO, J.C., FORTELIUS, M., GASPAR, C., BORGES, P.A.V. PODANI, J. & SCHMERA, D. (2014) Partitioning taxon, phylogenetic and functional beta diversity into replacement and richness difference components. *Journal of Biogeography*. 41 749-761