

Education

- 2013–2019 **PhD in Statistics**, *University of Valencia*, Spain.
First Class Honours
- 2010–2013 **Masters in Biostatistics**, *University of Valencia*, Spain.
- 2008–2010 **BEng Forest Engineering**, *University of Oviedo*, Spain.

PhD Thesis

- Title *Spatio temporal modeling of species distribution*
- Supervisors Professor Antonio López-Quílez & Professor Marta Blangiardo
- Description This Thesis presented species distribution models through different approaches, showing an evolution from classical models applied during the last years, most of them based in regression models, to state-of-the-art methods currently used in several disciplines such as epidemiology or public health (INLA).

Master Thesis

- Title *Modelling species distribution of the III National Forest Inventory (Spain)*
- Supervisor Professor Antonio López-Quílez
- Description Development and comparison of statistical models, using different statistical (classical) applications (MaxEnt, Cart, Mars and Gam).

Experience

- May/2019– Present** **Postdoctoral Research Associate in Statistics**, UNIVERSITY OF KENT, Canterbury.
- Working within the Statistical Ecology (SE@K) group, on the project 'Modelling removal and re-introduction data for improved conservation'.

Objectives:

- Supplementing data types and optimal sampling design at removal sites.
- Model developments for Removal data.
- A “success” metric for re-introductions.
- Automation of model selection and assessment.
- Software development and dissemination.

Current projects:

- Removal and depletion modelling in ecology.
- Methodological developments for removal models.
- Spatio-Temporal distribution of *Chromolaena odorata* in Round Island (Mauritius).

- Sept/2013– Jan/2019** **PhD Student**, UNIVERSITY OF VALENCIA, Spain.
Thesis: Spatio temporal modeling of species distribution.
- Apr/2015– Dec/2016** **Visiting Researcher**, IMPERIAL COLLEGE OF LONDON, UK.
Projects focused in my doctoral thesis: Using SPDE for species distribution in ecology; Spatial and Spatio-Temporal modelling of forest trees: Spatio-Temporal distribution of vegetation using environmental and pollution data. Teaching duties: Tutorials Advanced regression models (MSc Epidemiology.)
- Sept/2012– Jul/2013** **Research Assistant**, UNIVERSITY OF VALENCIA, Spain.
Thesis: Modelling species distribution of the III National Forest Inventory (Spain).
- Oct/2010– Oct/2012** **Research Assistant**, POLYTECHNIC UNIVERSITY OF MADRID, Spain.
Assistant professor of Zoology and Forest Pathology (Diseases and Plagues). Developing GIS analysis and species distribution modelling. Forest health networks. Plagues and pests isolation.
- May/2008– Apr/2010** **Research Assistant**, POLYTECHNIC UNIVERSITY OF MADRID, Spain.
Thesis: “Nocturnal lepidoptera inventory of Atlantic Islands National Park (Cíes, Ons, Sálvora y Cortegada) (Galicia, Spain)” Capture and identification of nocturnal Lepidoptera. Developing GIS analysis and species distribution modelling (SDM).

Publications

Articles

- de Rivera, O. R., Blangiardo, M., López-Quílez, A., & Martín-Sanz, I. (2019). **Species distribution modelling through Bayesian hierarchical approach**. *Theoretical Ecology*, 12(1), 49-59.
- Rodríguez de Rivera, Ó., López-Quílez, A., & Blangiardo, M. (2018). **Assessing the Spatial and Spatio-Temporal Distribution of Forest Species via Bayesian Hierarchical Modeling**. *Forests*, 9(9), 573.
- Rivera, Ó. R. D., & López-Quílez, A. (2017). **Development and comparison of species distribution models for forest inventories**. *ISPRS International Journal of Geo-Information*, 6(6), 176.

Forthcoming

- Rodríguez de Rivera, Ó., López-Quílez, A., Blangiardo, M., & Wasilewska, M. (2019). **A spatio-temporal model to understand forest fires causality in Europe**. *International Journal of Wildland Fire*.
- Rodríguez de Rivera, Ó., & McCrea, R.. (2020). **Removal modelling in ecology**. *Methods in Ecology and Evolution*.
- Rodríguez de Rivera, Ó., McCrea, R. & López-Quílez, A. (2020). **Spatio-Temporal distribution of *Chromolaena odorata* in Round Island (Mauritius)**. Special Issue: Spatio-Temporal Dynamics of Species. *Applied Sciences (MDPI)*.
- Rodríguez de Rivera, Ó., McCrea, R., & Matechou, E. (2020). **Methodological developments for removal models**.

Editor

- Guest Editor**, SPECIAL ISSUE: SPATIO-TEMPORAL DYNAMICS OF SPECIES, *Applied Sciences (MDPI)*, (2020).