





## Affiliation

PHD RESEARCHER: Faculty for Informatics and Data Science (FIDS) Regensburg University (UR).  since April 2023 📍 Germany.

## Scientific Career

- TENURE PROFESSOR IN STATISTICS: Department of Languages and Technologies (DTL) Federal Rural University of Rio de Janeiro (UFRRJ)  2020-2022 📍 Brazil.
- JUNIOR RESEARCH: Centre for the Research and Technology of Agro-environmental Sciences (CITAB). Department of Mathematics, University of Trás-os-Montes e Alto Douro (UTAD)  2021-2022 📍 Portugal. Institute of Biology and SAGE-COPPE. University of Rio de Janeiro (UFRJ)  2018-2020 📍 Brazil.
- UNDERGRADUATE PROFESSOR IN STATISTICS: Department of Statistics. Institute of Mathematics (IM) Federal University of Rio de Janeiro (UFRJ)  2018-2019 📍 Brazil.
- STATISTICIAN IN SOCIAL MEDIA RESEARCH: Department of Statistics. Kantar Media Research Peru (KMR) and Brazilian Institute of Public Opinion and Statistics (IBOPE)  2007-2012 📍 Peru.

## Education

- Ph.D. in Statistics\* [Joint modeling of longitudinal markers and survival data]  2018 📍 Brazil
  - M.Sc. in Statistics\* [A heavy-tailed and overdispersed collective risk model]  2014 📍 Brazil
  - B.Sc. in Statistics\* [Quality of life and Survival Analysis approach]  2007 📍 Peru
- (\*with Distinction)

## Skills

R • Python • BUGS • JAGS • Stan • Nimble • LaTeX • Markdown • Jupiter • GIT • QGIS • Google Earth Engine • Julia

## Book Chapter

The Covid-19 Protection Index (CPI) as a Way to Identify Vulnerabilities and Disparities Across Brazilian Territories. In Geohazards and Disaster Risk Reduction Multidisciplinary and Integrated Approaches. Springer. 2023. [doi]

## Selected Manuscripts

- Chiroque-Solano PM (2023). Identifying Heterogeneity in Regression Compositional Data Integration with Many Categories. [doi].
- Chiroque-Solano PM and Guido A. Moreira. (2022) A robust clustering method using compositional data restrictions: Studying wood properties in the reforestation of Portugal. Conference on Applied Statistics in Agriculture and Natural Resources. [doi]
- Chiroque-Solano PM and Fernando Moura. (2021) A heavy-tailed and overdispersed collective risk model. North American Actuarial Journal. [doi]
- Teixeira CD, Chiroque-Solano PM, et al. (2021) Decadal (2006-2018) dynamics of Southwestern Atlantic's largest turbid zone reefs. PLoS ONE. [doi]
- Moura, Abieri, Castro, Carlos-Júnior, Chiroque-Solano et. al. (2021) Tropical rhodolith beds are a major and belittled reef fish habitat. Nature. [doi]

## Service-Volunteer Experience

ADVISORY SERVICE - TEACHING - RESEARCHING SINCE 2017

- Presidency of the Council of Ministers - Science and Technology Department. 📍 Peru.
- Multidisciplinary Group: Coronavirus disease-Covid19 Action. 📍 Brazil.

## References Contacts

- Prof. Ralph S. Silva. Undergraduate Program Coordinator. ralph@im.ufrj.br
  - Prof. Fernando Moura. Graduate Program Coordinator. fmoura@im.ufrj.br
- Statistics Department. Institute of Mathematics, UFRJ. 📍 Brazil.