

# Francy Lisboa

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## Data analyst Professional

Agronomist (PhD) and statistician (training) with years of experience in data analysis of official and non-official data. A data analyst enthusiast and evangelist of cutting-edge technologies and their applications.

### Key Highlights:

- Experience in the statistical value chain (acquiring, processing, analysing, validating, disseminating relevant data).
- Problem-solving oriented
- Professional, courteous and competent

## Achievements

- First proposed data solution (Imputation -> Calculation) for the data client team (FAO - Aquastat) (August 2018)
- Deliver of data dashboard validation tool to the data client team (FAO – Aquastat) (August 2018)
- Review of technical papers (2017, 2018)
- Major update since 2011 of FAOSTAT Land Use domain (2016, 2017)
- Processing, analysis, validation, and dissemination of the indicator “Share of Forest” in the total land area in the FAOSTAT database as supporting statistic of the SDG 15.1.1 (2016)
- Major updates since 2011 of FAOSTAT Fertilizers domain (2016, 2017)
- Major updates since 2011 of FAOSTAT Pesticides domain (2016, 2017)
- Proposal of statistic course approved by the Soil Science Department committee of the Federal Rural University of Rio de Janeiro - Brazil (2016)
- Speaker at Brazilian Research Corporation: Rice and Beans unit presenting the soil impacts of climate-smart agriculture strategies (2015)
- Short-term Bayesian statistical course applied to soil and plant research at Brazilian Research Corporation (instructor) (2015).

- Author of the paper “*Much beyond Mantel: bringing Procrustes Association Metric to the plant and soil ecologist’s toolbox*”. PLoS One, v. 9, e101238, 2014a.
- Author of the paper “*The match between microbial community structure and soil properties is modulated by land use types and sample origin within an integrated agroecosystem*”. Soil Biology and Biochemistry, v. 78: 97-108, 2014b.
- Author of the paper “*The influence of litter quality on the relationship between vegetation and below-ground compartments: a Procrustean approach*”. Plant and Soil, v. 367, p. 551-562, 2012

## Key Skills

- R programming
- Python programming
- R Shiny apps
- Bayesian modelling
- Official statistics
- Agriculture

## Professional Background

### UNFAO - ESSD (Statistician)

(July 2018 – present)

Dynamically interacting with other FAO divisions to identify and propose domain-knowledge solutions for their statistical value chain. Creating data analytical framework for quality indicators related to the collection, processing, and dissemination of country-level official statistics. Building statistical modules (R packages) and web-based applications (shiny apps) to automate and standardise divisional-level statistical procedures. Standardizing and migrating water-related statistical procedures of the AQUASTAT database into the FAO Statistic Working System (SWS) framework.

### UNFAO – ESSD (Agronomist/Environmental analyst)

(2016 – 2018)

Collecting, processing, analysing and validating data disseminated on FAOSTAT by the environmental statistics team of the FAO statistics division (ESSD). Providing domain-knowledge interpretation of environmental and agricultural indicators. Reviewing of relevant technical documents. Improving data communication by making meaning out of official statistics disseminated in FAOSTAT.

## Certifications, Licenses and Education

PhD in Agronomy, concentration in soil science, 2012 – 2015

*Federal Rural University of Rio de Janeiro, Seropédica, Brazil*

M.S. in Agronomy, concentration in soil science, 2012 – 2015

*Federal Rural University of Rio de Janeiro, Seropédica, Brazil*

B.s in Agronomy, 2005 – 2010

*Federal Rural University of Rio de Janeiro, Seropédica, Brazil*

