## IMASL/CONICET

Statistician interested in R, Python, R Shiny and anything that helps to make data analysis more pleasant

## Education

#### Universidad Nacional de Rosario

Rosario, Argentina

DOCTORATE IN STATISTICS

2019-2024 (expected)

- I work under the supervision of PhD. Osvaldo Martin on Bayesian statistics and exploratory data analysis.
- · My goal is to create tools to help practitioners to understand and apply statistical methods and data analysis techniques with more ease.

### **Universidad Nacional de Rosario**

Rosario, Argentina

BACHELOR IN STATISTICS

2014-2019

• The career gave me a solid background in foundations of statistics as well as the ability to interpret results in an analytical manner.

# Research experience \_\_\_\_\_

#### Universidad Nacional de Rosario

Rosario, Argentina

RESEARCH ASSISTANT

Apr 2018 - Mar 2019

- Project: Statistical methods in official statistics.
- Wrote my undergraduate thesis Estimation in complex survey samples in presence of nonresponse under the supervision of MSc. Gonzalo Marí.

### Universidad Nacional de Rosario

Rosario, Argentina

RESEARCH ASSISTANT

Apr 2016 - Mar 2017

- **Project:** Sampling designs based on models for populations with spatial variability.
- · As a complement of a course in sampling techniques, I dedicated most of the time to the study of new sampling methods that incorporate spatial variability.

## Work experience \_\_\_\_\_

**AlixPartners** Buenos Aires, Argentina

CONSULTANT

Nov 2018 - Jan 2019

- Data manipulation and analysis using R, Python, SQL and Tableau.
- · Time series forecasting.
- · Task automation.

#### Instituto Nacional de Estadística y Censos

Buenos Aires, Argentina

STATISTICAL ASSISTANT

May 2018 - Oct 2018

- I worked on the study of non-response, its classification and treatment.
- Contributed to methodological manuals and internal reports.
- · Evaluation of methods to impute missing data.

### Universidad Nacional de Rosario

Rosario, Argentina Jul 2016 - Sep 2016

STATISTICAL ASSISTANT

· Survey sampling study to study characteristics of members from a professional college in Santa Fe province.

- Participated in the strategy to collect the data.
- Worked on the consistency of the data bases and the generation of internal reports.
- Worked on telephone surveys and cases follow-up.

## **Training experience**

Chegg Tutors Remote

Online tutor Aug 2018 - May 2019

- Tutored Statistics, R and SAS Programming, and related topics in English.
- I worekd with both undergraduate and graduate students from a very wide range of disciplines.

**Latinhire** Remote

**Online tutor**Nov 2015 - Nov 2018

- · Tutored Statistics both in English and Spanish.
- · Worked with both high-school and undergraduate students.

## Software development

All of my public software development can be found in my github profile.

#### **PYTHON**

ArviZ: Contributor

A package for exploratory analysis of Bayesian models.

**Bambi**: Contributor

A a high-level Bayesian model-building interface.

**formulae**: Author 2020 -

A WIP library that implements model formulas as in R lme4 package.

R

latex2r: Author 2020 -

Translate math formulas written in LaTeX to R code.

**shinymath**: Author 2020 -

A new mathematical input for Shiny apps.

## **R SHINY**

2021

samp: Author

2021 Visualize sampling distributions of several statistics generated from arbitrary mixtures of probability

distributions.

ifuns: Author

Interactively tune and visualize univariate mathematical functions.

sdeshiny: Author

An interface for a system of differential equations solver.

## Scholarships, awards and distinctions\_

**CONICET** San Luis, Argentina

DOCTORATE SCHOLARSHIP IN STRATEGIC TOPICS

2019 - 2024

- Topic: Exploratory analysis of Bayesian methods.
- Full-time position dedicated to study and research.

### Grupo Argentino de Biometría

Rosario, Argentina

Oct 2017

1ST PRIZE IN THE XIII YOUNG BIOMETRISTS CONTEST

• I worked with David Presutti, Agronomic Engineering student.

• We used generalized mixed linear models to solve the proposed problem.

### Comisión Fulbright Argentina

Austin, United States

FULBRIGHT SCHOLAR

Jan 2017 - Feb 2017

• I made a stay in the University of Texas at Austin thanks to the scholarship Friends of Fulbright 2017.

The activities involved english training, cultural exchange, volunteering and I also attended classes in Statistics.