### DOCTORATE CANDIDAT

IMASI /CONICET

Statistician interested in R, Python, R Shiny and anything that improves how we do data analysis

## 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.
- Studied density estimators and implemented a new alternative for the Python package ArviZ. This implementation was then translated to R and
  included in bayesplot package.
- Currently focused on Bambi, a Python library that makes Bayesian model building easier.

#### 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.
- Developed my undergraduate thesis Estimation in complex survey samples in presence of nonresponse.

### 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.

# Scholarships, awards and distinctions.

**CONICET**San Luis, Argentina

PhD 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

1ST PRIZE IN THE XIII YOUNG BIOMETRISTS CONTEST

Oct 2017

- 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.

## **Side projects**

Out of curiosity or fun, I also dedicate part of my time to projects not directly related to my doctorate.

- latex2r: An R package to translate math formulas written in LaTeX to R code.
- shinymath: Math inputs in R Shiny apps. This package gives a new input that is based on Mathquill and returns R code.
- formulae: A WIP library that enables using the popular R formulas in Python. While there is patsy out there, this implementation also handles group specific effects (a.k.a. random effects), among other features.