

# Tomás Capretto

PhD Candidate

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*and please don't forget: all the data and endless  
computer power only gives a wonderful infinite collection  
of wrong models*

## About me

- Statistician interested in teaching, research and consulting.
- **R and Python better than R or Python:**  
R is my main programming tool and I enjoy it a lot. Though, I am investing much time in Python because I want to complement both.
- **My thoughts in a nutshell:** More data never hurts. But in this era where everything generates data it is more necessary than ever to have the ability to ask questions and build better ideas.

## Education

- 2019-2024 **PhD in Statistics**, *Universidad Nacional de Rosario*, Rosario, Argentina.  
(expected) ○ I am working under the supervision of PhD. Osvaldo Martín on Bayesian Statistics. At the time, we are currently working on Density estimators and its implementation in the Python package Arviz.
- 2014-2019 **Bachelor in Statistics**, *Universidad Nacional de Rosario*, Rosario, Argentina.  
○ The career gave me a solid background in foundations of statistics and as well as the interpretation of results in an analytical manner.

## Research experience

- Apr 2018 - **Research assistant**, *Universidad Nacional de Rosario*, Rosario, Argentina.
- Mar 2019 ○ **Project:** Statistical methods in official statistics.  
○ Developed my undergraduate thesis *Estimation in complex survey samples in presence of nonresponse*.
- Apr 2016 - **Research assistant**, *Universidad Nacional de Rosario*, Rosario, Argentina.
- 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.

## Training experience

- Aug 2018 - **Online tutor**, *Chegg Tutors*, Remote.
- May 2019 ○ Tutored Statistics, R and SAS Programming, and related topics in English.  
○ I worked with both undergraduate and graduate students from a very wide range of disciplines.

Nov 2015 - **Online tutor**, *Latinhire*, Remote.

- Nov 2018
  - Tutored Statistics both in English and Spanish.
  - Worked with both high-school and undergraduate students.

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## Work experience

- Nov 2018 - **Consultant**, *AlixPartners*, Buenos Aires, Argentina.
- Jan 2019
  - Data manipulation and analysis using R, Python, SQL and Tableau.
  - Time series forecasting.
  - Task automation.
- May 2018 - **Statistical assistant**, *Instituto Nacional de Estadística y Censos*, Buenos Aires, Argentina.
- 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.
- Jul 2016 - **Statistical assistant**, *Universidad Nacional de Rosario*, Rosario, Argentina.
- Sep 2016
  - 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.

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## Scholarships, awards and distinctions

- 2019 - 2024 **PhD scholarship in strategic topics**, *CONICET*, San Luis, Argentina.
- **Topic:** Exploratory analysis of Bayesian methods.
  - Full-time position dedicated to study and research.
- Oct 2017 **1st Prize in the XIII Young Biometrists Contest**, *Grupo Argentino de Biometría*, Rosario, Argentina.
- I worked with David Presutti, Agronomic Engineering student.
  - We used generalized mixed linear models to solve the proposed problem.
- Jan 2017 - **Fulbright scholar**, *Comisión Fulbright Argentina*, Austin, United States.
- 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.