Tomás Capretto

PhD Candidate

IMASL/CONICET
✉ *tomicapretto@gmail.com*
🌐 *tcapretto.netlify.com*
 tomicapretto

Statistical learning, Statistical programming, Survey sampling

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:** Big Data does not mean all data. More questions. Better ideas.

Education

2019-2024 (expected) **PhD in Statistics**, *Universidad Nacional de Rosario*, Rosario, Argentina.
- 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 - Mar 2019 **Research assistant**, *Universidad Nacional de Rosario*, Rosario, Argentina.
- **Project:** Statistical methods in official statistics.
- Developed my undergraduate thesis *Estimation in complex survey samples in presence of nonresponse.*

Apr 2016 - Mar 2017 **Research assistant**, *Universidad Nacional de Rosario*, Rosario, Argentina.
- **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.

Teaching experience

Aug 2018 - May 2019 **Online tutor**, *Chegg Tutors*, Remote.
- 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.

Nov 2015 - Nov 2018 **Online tutor**, *Latinhire*, Remote.
- Tutored Statistics both in English and Spanish.
- Worked with both high-school and undergraduate students.

Work experience

Nov 2018 -
Jan 2019
Consultant, *AlixPartners*, Buenos Aires, Argentina.
- Data manipulation and analysis using R, Python, SQL and Tableau.
- Time series forecasting.
- Task automation.

May 2018 -
Oct 2018
Statistical assistant, *Instituto Nacional de Estadística y Censos*, Buenos Aires, Argentina.
- 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 -
Sep 2016
Statistical assistant, *Universidad Nacional de Rosario*, Rosario, Argentina.
- 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.

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 -
Feb 2017
Fulbright scholar, *Comisión Fulbright Argentina*, Austin, United States.
- 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.