Sonny Alberto Medina

Statistician - MSc Probability & Statistics
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EXPERIENCE

University of Bath, SAMBa - PhD Student

SEPTEMBER 2020 - PRESENT

PhD Student of the Statistical Applied Mathematics program.

Nielsen, Data Science - GDDC— *Statistician*

NOVEMBER 2018 - AUGUST 2020

Leading the Retail Establishments Survey design review.
Estimation of universes under markets precision target constraints.

SMA, CDMX — *Independent consultant*

JULY 2018 - DECEMBER 2018

Assessment of the redundancy of pollutants monitoring stations through statistical methodologies.

Human Rights Commission, CDMX — *Analyst*

AUGUST 2015 - AUGUST 2016

Automation of reports in R Markdown, creation of dashboards for describing the lawyers performance and projects to reduce the retardment on the resolution of the complaint records.

EDUCATION

CIMAT, Guanajuato — *MSc Probability & Statistics*

AUGUST 2016 - JUNE 2018

Graduated by thesis. GPA: 9.50/10.00

UNAM, Faculty of Sciences — *BSc Actuarial Science*

JULY 2011 - AUGUST 2015

Graduated by thesis, with honors. GPA: 9.0/10.0

SKILLS

Statistical knowledge

Survey sampling

Probability modelling

Time Series forecasting

Data/Map visualization

Risk measuring

COMPUTER SKILLS

R (+4yrs)	✓	✓	✓	✓	✓
Python	✓	✓	●	●	●
SAS (Beca SAS 2018)	✓	✓	●	●	●
Office, Latex	✓	✓	✓	✓	●
C,C++	✓	✓	●	●	●

LANGUAGES

Spanish: Native

English: Professional proficiency (TOEFL: 96/120)

PROJECTS

Thesis

[INEGI 2010 Census sample: variance estimation.](#)

[Gerber-Shiu function for a renewal risk model with positive jumps and brownian perturbation.](#)

Article — *Time series models*

[Time series models applied to the records of the Human Rights Commission of the Federal District](#)

ADDITIONAL INFORMATION

Given talks

Estimation techniques in survey sampling with official data, Jr Seminar of Math, Univ. of Guanajuato.

ARIMA vs Bayesian Structural models, Bottles and Models Meetings, DSci Nielsen.

Industry Think Tanks

Industrial problems workshop. Working with a local Electoral Commission. Developing a sample design for the "quick count" of the 2018 local elections.

Awards

Nielsen Simply Excellence Award. For the RES Design Review project, that implied a saving of more than $30K US. and 60 work days for DA area through implementation of sample selection algorithms and KML map generation with R.

ACADEMY

UNAM, Fac. of Sciences

AUGUST 2014 - JULY 2016

Teaching assistant:

Probability

Survey Sampling

Probability and Statistics for Computer Sciences

CIMAT

JANUARY 2017 - DECEMBER 2017

Teaching assistant:

Foundations of probability and Statistics

Data Analysis for the MSc in Computer Sciences

UNAM, FES Acatlán

AUGUST 2019 - TODAY

Stochastic Processes I professor.

Probability I professor.

Theory of Ruin, professor.

December 2020