

Maria Oros Data Scientist

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Services

My research mainly focuses on statistical inference applications. I'm also well versed in a number of programming languages and technologies to leverage solutions.

Education

UNIVERSITY OF NAVARRA

DATA SCIENCE - 2022

CENTER OF RESEARCH IN MATHEMATICS - MEXICO

PROBABILITY AND STATISTICS

📅 Aug 2018 📍 Guanajuato, Mexico

Links

[in](#) LinkedIn

<https://linkedin.com/in/MariaOros>

[📄](#) GitHub

<https://github.com/mariaob1201>

Skills

PROGRAMMING

Python • R • C/C++ • SAS • SQL

VISUALIZATION

Tableau • Streamlit • AWSQuickSight • R shiny

DATABASES

Relational: Postgres SQL • Non-Relational: MongoDB

DATAFRAMEWORKS

stats • Scikit-learn • MLib • pandas • Numpy

MISCELLANEOUS

AWS • Shell • \LaTeX • MS Office • GitHub • GitHub Actions • Docker • Flask • API

Volunteer

UNAM - SPEAKER

SPEAKER: [\[RECORDED VIDEO\]](#)

An introduction to Theoretical Physics at 9th Mathematical event at the Faculty of Science.

SCIENTIST SPECIALIST

Disclosure of science. Math scientist, teaching scientific thinking to elementary school kids.

Experience

DATA SCIENTIST (STAFF)

DATA SCIENCE INSTITUTE AT MADISON WISCONSIN - AMERICAN FAMILY INSURANCE

📅 06/23-Present

📍 Madison WI, EU

PORTFOLIO.

- Develop an Open source forecasting tool to on disease risk in plant pathology, helping agro-partitioners to make informed decisions due to environmental conditions. [DASHBOARD](#)
- Lead and conducted causal inference [META ANALYSIS](#) on Randomized Trials in plant pathology to evaluate effectiveness of treatments. Our paper is under review at PhytoFrontiers. SAS, R
- Contributed to the development of a [ROI CALCULATOR](#) inference of treatment profitability in plant pathology in the US. R, R-shiny
- Provided Statistical consultation to industry on supply chain management metrics of alignment perception from 10y survey data.

SENIOR DATA SCIENTIST-ANALYST

BISONIC GAMES - MARKETING AND GAME DESIGN DIVISION

📅 Sept 22 - Jun 23

📍 Remote

- **LAUNCHING FORGOTTEN RUNIVERSE™ (MMORPG GAME):**
GAME ECONOMY DESIGN: Develop the indicators for the in-game main loop (a crafting oriented system) for internal decision making.
NFT RARITY SCORE: Spearheaded the development of a statistical metric to quantify the rarity of Non-Fungible Tokens (NFTs), culminating in an interactive dashboard in Streamlit.

SENIOR DATA SCIENTIST-ANALYST

ADVANCED ANALYTICS (CREDIT RISK DIVISION)- BBVA MEXICO

📅 Mar 2021 - Sept 2022

📍 Mexico City

- **CREDIT CARD LOAN:** Develop and support the statistical model behind the core credit card loan business. Procedure includes a core segmentation, for which the not engaged customer segment was inferred based on cross transactional data. Performance: +15% marginal over the actual model. Tech: Pyspark, R, SAS, Data Studio.
- **ANNUAL INTERNAL CONTEST- ATTRITION MODEL FOR CORPORATE & GOVERNMENT BANKING AREA (Top 3 finalist in BBVA Mexico):** Developed a custom clustering model (KNN) to define the customers with the highest probability of attrition. A dynamic visualization tool was provided to stakeholders to differentiate segmented groups by using various customer indicators. Tech:Pyspark, Google Data Studio.

DATA SCIENTIST

TRUEHOME (REAL ESTATE TECHNOLOGY)

📅 Feb 19 - Feb 21

📍 Mexico City

- **AUTOMATED VALUATION MODEL DEPLOYED IN AWS:** Developed the internal pricing model to estimate a property's value in Mexico City and Metropolitan area. Employed a multivariate linear regression approach. Implemented as an endpoint service via AWS. Tech: Python, PostgresDB, AWS, SQL, Geopandas

Certificates

- 1) GOOGLE - THE POWER OF STATISTICS
- 2) DATA SCIENCE-INFERENCE AND MODELING
- 3) FUNDAMENTALS OF SCIENTIFIC RESEARCH UNDER UNCERTAINTY
- 4) TOEFL
- 5) MICROECONOMICS SPECIALIZATION