

Brian Britos Simmari

March 27, 1996

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Work Experience

Data Scientist & Coordinator- Scantech, Montevideo

Full-time

October 2023 -

Since October 2023, I have served as the coordinator for the ScannMarket product from the data science area. In this role, I oversee both the development of the product and the coordination with the Big Data and Business Intelligence (BI) teams. Additionally, I liaise with the Brazilian quality team to ensure the delivery of a high-quality product. Our team utilizes Jira for work organization and GitLab as our repository.

Furthermore, I collaborate with the quality team and the Product Manager to set the strategic direction of the product, determining which new features to implement. My team consists of 7 professionals, including engineers, economists and physicists. Currently, we are transitioning our project development from R to Python.

Skills: Mathematical Modeling · R (Programming Language) · Python · Tableau · GIT · Jira · SQL · Manage Team

Data Scientist - Scantech, Montevideo

Full-time

March 2023 - October 2023

I contributed to the development of the ScannMarket product, which is now utilized by various industries in Brazil, including Nestlé, Bimbo, Heinz, Mondelez, and Camil. ScannMarket enables the estimation of product sales, providing detailed insights segmented by UF (federal unit), region, and store type.

Skills: Mathematical Modeling · R (Programming Language) · Tableau · GIT · Jira · SQL

Languages

Spanish

English: F.C.E. Certificate

Data Analyst - Tata S.A., Montevideo

Full-time

November 2022 - March 2023

In November 2022, I transitioned to Tata's Procurement department, where I analyze large volumes of data to identify opportunities for improvement and rectify faulty processes. Additionally, I utilize R to automate various data management tasks.

Skills: Mathematical Modeling · R (Programming Language) · Microsoft Excel · Microsoft Power B

Data Analyst - Frontoy (Tata S.A.), Montevideo

Part-time

July 2022 - November 2022

I specialize in data analysis within the logistics sector, focusing on reducing transportation costs for goods from Frontoy's warehouse in Montevideo to destinations across Uruguay.

Skills: Data Visualization · Mathematical Modeling · R (Programming Language) · Pandas (Software) · Microsoft Excel · Microsoft Power BI · Python · SQL

Assistant Professor - Science Faculty, Universidad de la República, Montevideo

August 2019 - July 2024

I currently serve as an assistant professor, teaching mathematics courses, including:

Math 1, Math 2, Linear Algebra 2, Differential and integral calculus 1, Geometry of curves and surfaces, Biostatistics.

Assistant Professor - Faculty of Engineering, Universidad de la República, Montevideo

March 2020 - February 2023

I currently serve as an assistant professor, teaching mathematics courses, including:

Geometry and linear algebra 1, Vectorial Calculus, Calculus 2, Differential equations, Probability and statistics.

Formal Education

Aix-Marseille School of Economics, AMU, *PhD in Mathematics*

October 2024 - In progress

Recently I started my PhD studies at Aix-Marseille University. The thesis plan is to study Wasserstein geometry and diffusion models for generating synthetic realistic data. I also want to study the relationship between these two concepts, which seems to lie in Wasserstein gradient flow.

Faculty of Engineering , UdelaR, *Master in Data Science and Machine Learning*

March 2023 - In progress

My master's studies in data science and machine learning. I have done computer engineering subjects such as non-relational databases (where we saw MongoDB and Neo4j), electrical engineering subjects such as Deep Learning for Artificial Vision (where we saw neural networks, transformers, GAN, diffusions, VAE, etc. We use python, in particular numpy and Pytorch) and Estimation and Prediction in Time Series. I have also taken mathematics courses, such as Stochastic Processes and Optimization Theory and Algorithms.

I have recently completed my thesis, where I studied the optimal transport problem and its application to domain adaptation. In addition to being a bibliographic compilation on these two topics, together with my supervisor we propose a procedure, using optimal transport, K-means and SVD, to address the domain adaptation problem when the model is a simple linear regression and the domains differ by a rotation.

Science Faculty, UdelaR, *Bachelor of Mathematics*

March 2018 - August 2022

During my undergraduate studies I acquired knowledge in various areas of mathematics such as calculus, algebra, differential equations, probability and topology. My monographic work, titled "Riemann-Roch Theorem and Applications", addresses notions of algebraic geometry and complex calculus.

Courses

I have taken some deeplearning.ai courses in Coursera to expand my knowledge on various deep learning topics. It is possible to see the certificates on my linkedin.