BRUNO STEFONI

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EDUCATION

CENTER FOR DATA SCIENCE — New York City
NEW YORK UNIVERSITY — 2021 – May 2023
Master of Science in Data Science
- GPA: 4.0
- Relevant coursework: Optimization and Computational Lineal Algebra, Machine Learning, Big Data.
- Student Representative for the Master's Program, meeting faculty members to communicate student feedback.

SCHOOL OF ENGINEERING — Santiago, Chile
UNIVERSIDAD DE CHILE — 2010 – 2018
Master in Engineering Sciences, mention in Transport
- Graduated with highest distinction. TA of five different courses, e.g., Stochastic Processes, Network Optimization.
- Published a scientific paper based on my thesis in the Transportation Research Board 97th Annual Meeting [link].
- Published the research done for my master's thesis in the Chilean Society of Transport Engineering Magazine [link].

Civil Engineering Degree, mention in Transport
- Graduated in the top 10% of my class cohort. Outstanding student award, year 2010.

EXPERIENCE

STP (SERVICIO DE TRANSPORTE DE PERSONAS) — Santiago, Chile
STP is a transit company in Chile's capital operating the 2nd biggest electric bus depot of the world. — 2018 – July 2021

Data Analyst
- Improved STP's contract KPIs by detecting routes with a 10-20% discrepancy between planned and real bus speeds doing A/B tests in data. This allowed for frequency and fleet adjustments in the concession contract.
- Refined internal cost estimates by building a predictive model for battery and fuel consumption using sklearn.
- Detected data outliers due to faulty batteries in 20% of STP's electric buses via quantitative analysis in a SQL and Python data pipeline, alerting the fleet provider contractor.
- Designed and launched a statistical study on a prospective automated passenger count system. The findings prevented investing on tech less accurate than current methods.
- Improved contract KPIs by processing users' tweet reports, scraping twitter using Python packages twython and pandas to document dozens of disruptive events each week.
- Developed a telegram chat bot with Python pandas and SQL for management and on-site workers to access real-time vehicle status information and analytics.
- Collaborated in the development of a chat bot alerting COVID19 cases in the company preventing its further spread.
- Optimized drivers' work shift scheduling by developing a regression model from employee attendance data.

TELEFONICA R&D AND UNIVERSIDAD DE CHILE — Santiago, Chile
Telefonica is one of the largest telecom companies in Latin America. — 2017 – 2018

Research Analyst
- Designed a new express public transport bus service. Optimized the route design using Machine Learning.
- Developed extraction and visualization tools for past transit data using Python and R (over 900 million registries).

GLOBAL TRANSPORT HACKATHON — Montreal, Canada
International competition for urban mobility innovation. — May 2017
- Led an interdisciplinary group of 6. Designed and developed a mobile app for public transit users.
- Pitched to field experts and authorities improving my public speaking skills.

SKILLS

- Advanced Python for Data Science (sklearn, pandas, numpy, dask plotly, seaborn), SQL, Excel, Git, Bash, R, C++, Java
- Languages: Native Spanish speaker; fluent in English; intermediate Italian.

ACTIVITIES & INTERESTS

- Community Involvement: Volunteered as a math teacher in Hogar de Cristo Foundation for children at social risk. Taught classes at the public-school Amador Negme and provided personal tutoring in math for 2 kids for a year.
- Basketball, jogging with my dog, vinyl DJing, podcasts about physics or philosophy, reading, cooking and craft beers.