

Juan Manuel Sánchez Pérez

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Portfolio:
[GitHub pages](#)

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Languages

English – TOEFL iBT: 97 (2021)
Spanish – Native with
outstanding writing skills
German – Basic (A2)
Italian – Intermediate (B2)

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before printing this document.*

Data Scientist with hands-on experience in delivering easy-to-understand insights via data visualization. Proficient in building advanced statistical models with Python and R.

Education

B.Sc. in Mathematics at University of Guadalajara 01/2014 – 12/2020
Dissertation

Title: “Numerical Solution of Differential Equations using Artificial Neural Networks”

08/2011 – 06/2013, 02/2015 – 06/2015

Electrical Engineering at Monterrey Institute of Technology and Higher Education
[completed 180 credits]

Relevant courses: Object Oriented Programming, and Data Structures

Relevant Experience

Freelance Statistical Consultant 06/2020 – 01/2021

- Provided advice about statistical inference to social scientists
- Performed data analyses and hypothesis testing on demographic data of students
- Created data visualizations for scientific publications

Data Science Programmer at Negodata 10/2016 – 04/2017, 02/2021 – Present

- Implemented a tree-based model for forecasting foreign exchange rates
- Created a GUI-based tool for feature selection using LASSO regression
- Implemented a tool that automatically generates PDF-based dashboards of speech metrics

Current Projects

The Elements of Statistical Learning: Study Group since 02/2021

- Leading the study group (see: [group's website](#))

Automation of Accounting Processes

- Use of computer vision to read bank statements
- Automated generation of partial bank reconciliation statements
- Use of Python to scrape electronic invoicing records

Mathematical and Technical Skills

Relevant courses:

- Analysis and Design of Experiments, Statistical Inference, Multivariate Statistical Methods
- Measure Theory, Machine Learning and Genetic Algorithms

Technical Skills:

- Python (PyTorch, scikit-learn, NumPy, pandas), R and Java
- Advanced LaTeX for scientific writing
- Artificial neural networks (MLP, CNN, RNN, ResNets, attention, encoders)
- Data visualization using D3.js, matplotlib
- Web development using Django (HTML and CSS)
- Agile methodologies (SCRUM, Jira, Kanban)
- SQL and database administration (PostgreSQL)

Additional activities

President of the Student's Council of the Mathematics Major 10/2016 – 10/2017

- Organized a trip to Mexico City to attend the national summit of mathematics
- Co-organized the “Maths and Physics Science Week”

since 04/2021

Artificial Intelligence and Neuroscience Continuing Education Programme

- Currently enrolled; Offered by the Consejo Mexicano de Neurociencias [Mexican Neurosciences Council]