

# 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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can download a printable version  
of this curriculum [here](#).*

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]