



Ignacio
Jolín Rodrigo

Mathematician

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 Jan 25, 2001

 Valladolid, Spain



About Me

I am a Mathematician (BSc & MSc) with a strong passion for Artificial Intelligence Research and Data Science. My academic training has equipped me with advanced analytical and problem-solving skills, which I now apply to machine learning, statistical modeling, and algorithm development.

I excel at transforming abstract mathematical principles into real-world solutions, whether through cutting-edge AI research, scalable data systems, or innovative applications of machine learning. Currently, I'm deeply exploring Large Language Models (LLMs), generative AI, and other emerging frontiers in artificial intelligence.

Resume

Experience

- **SW And Technology Department At Renault I+D+I, Valladolid**
Data Science
September 2024 - June 2025
 - Worked with Linux on Raspberry Pi, implementing communication protocols.
 - Data Science: Developed image classification models and built a predictive model for gas consumption forecasting.
 - Created technical documentation using Jupyter Notebooks and Markdown.

Education

- **Universitat Politècnica De València, Spain**
Master's Degree In Mathematical Research
2023 - 2024

My master's program equipped me with a dual perspective: the rigorous methodology of academic research and the pragmatic mindset of industry applications. I developed the ability to navigate between theoretical frameworks and real-world problem-solving, mastering how to adapt abstract concepts into practical solutions. This experience honed my capacity to work effectively in both environments, whether conducting structured research or delivering actionable results under technical and time constraints, while maintaining the precision of mathematical thinking at the core of my approach.
- **Universidad De Valladolid, Spain**
Bachelor's Degree In Mathematics
2019 - 2023

I mastered the foundational principles of diverse mathematical fields, from pure to applied disciplines. Beyond technical knowledge, this rigorous training honed my ability to think in abstract terms, construct logical frameworks, and solve complex problems with structured creativity. These core skills now serve as my toolkit for tackling challenges in AI research and data science, where deep mathematical reasoning meets real-world impact.
- **Erasmus Exchange Program At The Universidade De Coimbra, Portugal**

Bachelor's Degree In Mathematics
2021 – 2022

This marked my first experience living far from home, where I embraced the challenge of adapting to a new cultural environment. I learned to collaborate with people from diverse backgrounds, explored fascinating academic topics beyond my usual scope, and grew by stepping far outside my comfort zone.



Languages

- English
Certified with B2 First – Cambridge
- Spanish
Native
- Portuguese
Elementary



Hard Skills

- Coding
RStudio, MATLAB, Mathrmatica, C, Bash, Python (Threading, Multiprocessing, Pillow, Keras, TensorFlow, PyTorch, Numpy)
- Mathematics
Topology, Optimization, Functional Analysis, Algebra, Mathematical Modelling, Stadistics, Cryptography
- Machine Learning
With a strong theoretical background: Artificial neural networks, Dlimension reduciton, Random forest, Convolutional neural networks, Support vector machine
- OS
Linux
- Version Control
Git
- Technical Redaction
LaTeX, Markdown, Jupyter
- Databases
SQL



Soft Skills

- Abstract Problem Resolution
- Effective Communication
- Quick Learning Ability
- Academic Research
- Team Work

Publications

2025

- Time Series Analysis With Persistence Landscapes: A Novel Model For Alzheimer Detection
[Preprint, Accessed: 2024-07-15. DOI: 10.36227/techrxiv.174494666.69176037/v1](#), [Valladolid, Spain](#)
Ignacio Jolín

2024

- Master's Thesis: Clasificación De Series Temporales Empleando Análisis Topológico De Datos
[Valencia, Spain](#)
Ignacio Jolín, Antonio Falcó
- Introduction To Knot Theory
[XI Congreso del Máster en Investigación Matemática y Doctorado en Matemáticas, Universitat de València, Spain](#)
David Campos-Abad, **Ignacio Jolin-Rodrigo**, Clara Soler-Signes

2023

- Bachelor's Thesis: Lema De Sperner Y Topología Simplicial
[Valladolid, Spain](#)
Ignacio Jolín-Rodrigo, Jesús Dominguez