Diego García-Pérez

Mathematician

Madrid, Spain
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Skills

Strong abstract reasoning, analytical skills and communication.

Educational background in mathematics, statistics, computer science and data science. Proficiency in Python, C++, R, SQL and more.

Strong English level (IELTS 8.5 - C2). B1 in French and HSK-3 in Chinese.

Experience

Universidad Carlos III de Madrid / ML researcher and lecturer

MAY 2025 - PRESENT, MADRID

Research in generalization bounds (Core **RANK A**: "Advances in PAC-Bayesian certification of deep neural networks: tighter closed-form inequalities and optimization of bounds on non-differentiable losses", **UAI '26**). Research in novel algorithms for training Binary Neural Networks. Application of these algorithms on Radio Frequency (time-series) tasks.

20 hours of lectures in Artificial Intelligence MSc - Neural Networks and Deep Learning courses.

BBVA / Data Scientist

SEP 2022 - MAY 2025, MADRID

Developed a novel approach for threshold adjustment in hierarchical classification models to satisfy stakeholders' needs. Set up the first model with real-time inference in the company. Designed an original method for A/B testing to account for non-random sampling needs.

EY / Data Scientist

JAN 2022 - AUG 2022, MADRID

Implemented Machine Learning models and worked on MLOps solutions healthcare projects. Proposed a new algorithm to allocate patients to doctors optimizing workload balance.

Education

Universidad Carlos III de Madrid / PhD in Artificial Intelligence

SEP 2024 - present, MADRID

Currently studying generalization bounds for Machine Learning models through PAC-Bayesian and Information Theory methods. Exploring applicability on Generative Models.

University of Navarra / Master's Degree in Data Science

SEP 2022 - JUN 2023, MADRID

Studied on the weekends under a scholarship from my employer at the time, BBVA.

Universidad Complutense de Madrid / Mathematics

SEP 2018 - JUN 2022, MADRID

Degree in pure mathematics with a specialization in Computer Science on the 4th year.

Awards

Silver Medal winner at the National Mathematical Olympiad (2018).

Awarded a scholarship by the Complutense University of Madrid (UCM) thanks to a research project (2018).