MARIO MARTÍNEZ GARCÍA, PHD

Data Scientist | Machine Learning Researcher | PhD in Machine Learning

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🔖 Personal website

PROFESSIONAL SUMMARY

Data scientist with a strong focus on developing practical, data-driven solutions to real-world problems. Currently working on applying advanced techniques such as privileged information, knowledge distillation, and multi-task learning. Committed to advancing artificial intelligence in clinical and sports contexts. Creative and proactive problem solver with strong teamwork values and high adaptability to multidisciplinary environments. Self-driven and dedicated to developing intelligent systems that enhance decision-making and deliver tangible value to people's lives.

EDUCATION

BSc in Physics

University of Murcia   **Average mark: 7.79/10 | 3.12/4**
📅 Sept. 2015 - Jul. 2019   📍 Murcia, Spain

- BSc dissertation: **Biomechanical study of the long jump - Application to the 2018 Birmingham World Championships**.
- Mobility program: From September 2017 to July 2018 (3rd year) at University of La Laguna in Tenerife, Spain

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MSc in Data Science

Open University of Catalonia   **Average mark: 9.27/10 | 3.71/4**
📅 Sept. 2019 - Jan. 2021   📍 Online

- MSc dissertation: **Feasibility study of a spectra-based classification of the Gaia Photometric Alerts**.

PhD Student | Machine Learning

Basque Center for Applied Mathematics (BCAM)
📅 Jun. 2021 - Jul. 2025   📍 Bilbao, Spain

- Title: **Advances in learning using privileged information for supervised classification**.
- Main research topics: multi-objective optimization, privileged information, knowledge distillation, and multi-task learning.
- Supervisors: Iñaki Inza and Jose A. Lozano.
- Research Stay: From September to December 2024. LIVIA (Imaging, Vision, and Artificial Intelligence Laboratory), École de Technologie Supérieure, Montreal, Canada. Supervisor: Prof. Marco Pedersoli.

MBA. Future Leaders + Digital Marketing

ThePowerMBA
📅 Jun. 2023 - Present   📍 Online

EXPERIENCE

PhD Student - Researcher

Basque Center for Applied Mathematics (BCAM)
📅 June 2021 - Present   📍 Bilbao, Spain

Private Teacher

Freelance
📅 June 2014 - June 2021   📍 Alhama de Murcia, Spain

Internship: Biomechanics of the Locomotive System

University of Murcia
📅 January 2019 - July 2019   📍 Murcia, Spain

PUBLICATIONS

Martínez-García, M., Inza, I., Lozano, J.A. (2025): **Teacher privileged distillation: How to deal with imperfect teachers?**. Knowledge-Based Systems, 113338.

Martínez-García, M., García-Gutiérrez, S., Barreñada, L., Inza, I., Lozano, J.A. (2024): **Extending the learning using privileged information paradigm to logistic regression** . Neurocomputing 615, 128869.

Martínez-García, M., Inza, I., Lozano, J.A. (2023): **Learning a logistic regression with the help of unknown features at prediction stage** . In IEEE Conference on Artificial Intelligence (CAI), pp. 298–299.

Martínez-García, M., García-Gutiérrez, S., Armañanzas, R., Díaz, A., Inza, I., Lozano, J.A. (2022): **Learning a Battery of COVID-19 Mortality Prediction Models by Multi-objective Optimization** . In: Artificial Intelligence in Medicine (AIME), pp. 332–342.

Armañanzas, R., Díaz, A., Martínez-García, M., Mazuelas, S. (2021): **Derivation of a Cost-Sensitive COVID-19 Mortality Risk Indicator Using a Multistart Framework**. In: IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp. 2179–2186.

OUTREACH AND DISSEMINATION

II Conference on Data Science and Artificial Intelligence

Title: *Multi-objective optimization for the development of COVID-19 mortality prediction models*

📅 May 2022   📍 Pamplona, Spain

39th National Conference of Statistics and Operational Research

Title: *Learning a Battery of COVID-19 Mortality Prediction Models by Multi-objective Optimization*

📅 June 2022   📍 Granada, Spain

V Bilbao Data Science Workshop (BIDAS)

Title: *Integrating the privileged information paradigm into logistic regression*

📅 June 2023   📍 Bilbao, Spain

Bioguipuzkoa Health Research Institute

Title: *Learning Using Privileged In- formation in clinical scenarios*

📅 February 2023   📍 San Sebastián, Spain

SEMI and REDISSEC COVID-19 report

Title: *Clinical severity prediction of COVID-19 admitted patients in Spain: SEMI and REDISSEC cohorts*

📅 Februrary 2023   📍 Bilbao, Spain

LXXV Annual Meeting of the Spanish Society of Neurology

Title: *Computing toward personalized medicine: optimization of dynamic predictive models in decision-making*

📅 November 2023   📍 Valencia, Spain

PalencIA Workshop

Title: *Enhancing model performance through privileged information: A preliminary probability approach to harness privileged features*

📅 March 2024   📍 Palencia, Spain

GRANTS

Predoctoral Research Grant | Severo Ochoa

Ministry of Science, Innovation and Universities - Spanish Government
Reference: *PRE2021-099279*

COMPLEMENTARY COURSES

Multi-objective Optimization using Metaheuristics

BCAM

📅 Marzo 2022   📍 bcam.org

Machine Learning with Python

DataCamp

📅 August 2021   📍 datacamp.org

Neural Network and Deep Learning ↗

deeplearning.ai

📅 September 2020   📍 Coursera.org

Data Science: Machine Learning ↗

HarvardX

📅 Marzo 2020   📍 edx.org

Machine learning for Health and Bio

University of Oxford

📅 July 2024   📍 Oxford

LANGUAGES

Spanish: Native tongue

English: C1 (2023)

French: Basic knowledge

TECHNICAL SKILLS

Python, R, Git, Scikit learn, Pandas, Numpy, Tensorflow, SQL