Darío Cabezas Larese

AI Researcher | Data Scientist | Independent Builder

Madrid, Spain | dcabezas@tsc.uc3m.es

dariocabezaslarese.com | GitHub: dariocb | LinkedIn | Google Scholar

PROFESSIONAL EXPERIENCE

WPP | Data Scientist, Global Functions | 2025-present

Designed a production-scale deep learning classification system for procurement expenditure and standardized enterprise classification approaches. Designed and implemented an enterprise master data management and supplier entity-resolution system.

UC3M | AI Research Scientist | 2023-present

Research in the Signal Processing Group, Department of Signal Theory and Communications. Transformers, attention mechanisms, probabilistic and generative models, spectral kernel learning and deep learning for time series.

Sandoz | Data Scientist, Global Functions | 2023-2024

Developed and deployed deep learning models for financial forecasting.

BIsiona | Earlier data engineering and business intelligence

Data engineering and BI, including projects for pharmaceutical clients.

EDUCATION | UNIVERSIDAD CARLOS III DE MADRID

PhD in Artificial Intelligence - in progress, expected 2027
MSc in Machine Learning for Healthcare - 2025
BSc in Data Science and Engineering - 2024

SELECTED PUBLICATIONS | ACADEMIC NAME: DARÍO C. LARESE

Flow-based Spectral Kernel Learning for Nonstationary Attention

Zi Yang, Ying Li, Alejandro Lancho, Darío C. Larese, Pablo M. Olmos, Michael Minyi Zhang.

NeurIPS 2026. Coauthor, fourth author. Publication

Transformer Vibration Forecasting for Advancing Rail Safety and Maintenance 4.0

Darío C. Larese, Almudena Bravo Cerrada, Gabriel Dambrosio Tomei, Alejandro Guerrero-López, Pablo M. Olmos, María Jesús Gómez García.

IEEE Open Journal of Intelligent Transportation Systems, 2025. First author. Publication

Modeling Recurrent Suicide Attempts Using Probabilistic Hawkes Processes

Darío C. Larese, Pablo M. Olmos, Antonio Artés-Rodríguez, Laura Arenas-Pijoan, Eugènia Nicolau-Subires, Vicent Llorca-Bofí, Enrique Baca-García, María Irigoyen-Otiñano, Jorge López-Castromán.

Spanish Journal of Psychiatry and Mental Health, 2026. First author. Publication

RESEARCH AND TECHNICAL PRACTICE

Transformers, attention mechanisms, probabilistic modeling, generative models, representation learning, time-series forecasting, classification, entity resolution, evaluation and production ML engineering.

Python | PyTorch | Hugging Face | SQL | Databricks

INDEPENDENT WORK AND ADDITIONAL INFORMATION

Quickie: independently developed native iOS personal finance app. Launch in preparation. quickie.es

Academic Excellence Scholarship, Comunidad de Madrid, 2022 (top 3%).
Languages: Spanish (native), English (fluent).