

Sergio Álvarez Balanya

[CUNEF UNIVERSIDAD](#)
Almansa 101, 28040 Madrid Spain
sergio.abalanya@cunef.edu
[CUNEF Website](#)
[Google Scholar](#)
[ORCID](#)

EMPLOYMENT

2025 – present Assistant Professor on Tenure Track, Dept. of Quantitative Methods, CUNEF Universidad

2022 – 2025 Applied Scientist, Amazon, Madrid

2019 – 2022 Research Assistant, Audias research Group, UAM, Madrid

2016 – 2017 Data Scientist, ETS Asset Management Factory, Madrid

EDUCATION

2020 – 2025 PhD Program in Computer and Telecommunication Engineering, AUDIAS-UAM Research Group, Universidad Autónoma de Madrid, Spain

2019 – 2020 Master's Degree in Computational Intelligence and Interactive Systems Research, AUDIAS-UAM Research Group, Universidad Autónoma de Madrid, Spain

2013 – 2018 Bachelor in Telecommunications Engineering, Universidad Autónoma de Madrid, Spain

FIELDS OF INTEREST

Probabilistic Machine Learning, Bayesian Probability, Calibration, Deep Learning

PUBLICATIONS

A. Balanya, Sergio, Maroñas, Juan, Ramos, Daniel. Adaptive temperature scaling for Robust calibration of deep neural networks. *Neural Computing & Applications* 36, 8073–8095, 2024.

A. Balanya, Sergio, Ramos, Daniel, Ramirez-Hereza, Pablo, T Toledano, Doroteo, Gonzalez-Rodriguez, Joaquin, Ariza-Velazquez, Alicia, Vidal Orlovac, Josip, Doncel Gutiérrez, Nuria, Gaussian Processes for radiation dose prediction in nuclear power plant reactors, *Chemometrics and Intelligent Laboratory Systems*, Volume 230, 104652, 2022.

Ramirez-Hereza, Pablo, Ramos, Daniel, Maroñas, Juan, A. Balanya, Sergio, Almirall, Jose. Gaussianization of LA-ICP-MS features to improve calibration in forensic glass comparison, *Forensic Science International*, 349, 111735, 2023

SELECTED ACADEMIC HONOURS AND GRANTS

2019 – 2020 Collaboration Grant awarded by the Ministry of Education