

JESÚS DE LA FUENTE CEDEÑO

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EXPERIENCE

Softvision AI Machine Learning Quantitative Researcher	March 2025 - Current Prague (Remote)
SonyAI Research Scientist Intern	Sep 2024 - March 2025 Barcelona
• Integrated large language models (LLMs) with graph-based machine learning models to enhance knowledge graph embeddings, improving relational reasoning across complex datasets.	

DeepFi (Startup) Quantitative Research Intern	May 2022 - Oct 2022 Madrid (Remote)
• Implemented gradient-boosting models for price events prediction and dynamical liquidity allocation on Uniswap v3 pools, delivering higher risk-adjusted returns compared to passive strategies.	

EDUCATION

Center for Data Science, New York University Fulbright Fellowship Ph.D. Researcher	Sep 2022 - Sep 2023 New York
<i>Research Topics:</i> Adaptive autoencoders for train-test distribution shift. <i>Advisor:</i> Carlos Fernandez-Granda (Ph.D. Stanford '14).	
Electrical Eng. Department, University of Navarra Ph.D. candidate in Machine Learning applied to Computational Biology	Sep 2020 - Feb 2025 Spain
<i>Research Topics:</i> Graph Learning, Representation Learning, Bayesian Inference, xAI. <i>Advisors:</i> Idoia Ochoa (Ph.D. Stanford '16) and Mikel Hernaez (Post-doc Stanford '16).	
TECNUN School of Engineering, University of Navarra B.Eng. & M.Eng: Electrical Engineering	Sep 2014 - 2020 Spain

HIGHLIGHTED PUBLICATIONS

Interpretable Causal Representation Learning for Biological Data in the Pathway Space Interpretable framework with theoretical guarantees	2025
• Poster at AIDrugX, NeurIPS 2024 . Published at ICLR .	
Sweetwater: An interpretable and adaptive autoencoder for efficient tissue deconvolution Autoencoder for train-test distribution shift minimization	2025
• Poster in MLCB 2023 . Published at Nucleic Acid Research .	
Towards a more inductive world for drug repurposing approaches Inductive and transductive node embedding analysis on bipartite graphs	2025
• Oral presentation ($\frac{6}{76}$) in AI4D3, NeurIPS 2023 . Published in Nature Machine Intelligence .	

SKILLS

Languages Python, R, Linux/Bash, LaTeX, Solidity.	Machine Learning LLMs, Graph Neural Networks, Decision Trees, Autoencoders, Knowledge Graphs, Gradient-Boosting, Linear/Logistic Regression, PCA, Ensemble Learning.
Libraries PyTorch, SciPy, NumPy, Seaborn, Scikit-learn.	
Technologies Docker, uv, Poetry, Slurm, Hydra, Git, AWS.	Personal Highly self-disciplined, detail and result-oriented. Creative and self-starter. Able to work on multiple projects simultaneously, with multidisciplinary teams.
Software SENA-VAE , GraphGuest , Sweetwater , TraRe	

HONORS AND AWARDS

1. **Kaggle Competitions Expert.** Highest Rank: **Top 0.5%** (997 of +200,000). 2025
2. **Kumo AI Hackathon:** Ranked **2nd** out of 20 competitors. April 2024
3. **Ph.D. Fulbright Fellowship,** 1 year at New York University. **Amount: 41,180 \$** Sep 2022
4. **Navarra's Government Fellowship,** 2 years Ph.D. Funding. **Amount: 68,718 €** Sep 2021-2023