

JESÚS DE LA FUENTE CEDENO

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EXPERIENCE

Softvision AI

Quantitative Researcher

March 2025 - Current

Prague (Remote)

- Building **mid-frequency** trading strategies on **crypto-asset** **perpetuals** for **p-hat fund**.

SonyAI

Research Scientist Intern

Sep 2024 - Feb 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)

- Built a transaction-level backtesting engine and developed **mid-frequency** liquidity allocation strategies on Uniswap v3, **improving live risk-adjusted returns by 43%** over passive strategies.

EDUCATION

Center for Data Science, New York University

Fulbright Fellowship Ph.D. Researcher

Sep 2022 - Sep 2023

New York

Research Topics: Adaptive autoencoders for train-test distribution shift.

Advisor: 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

Research Topics: Graph Learning, Representation Learning, Bayesian Inference, XAI.

Advisors: 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

2025

Interpretable framework with theoretical guarantees

- Poster at **AIDrugX**, **NeurIPS 2024**. Published in **ICLR**.

Sweetwater: An interpretable and adaptive autoencoder for efficient tissue deconvolution

2025

Autoencoder for train-test distribution shift minimization

- Poster at **MLCB 2023**. Published in **Nucleic Acids Research**.

Towards a more inductive world for drug repurposing approaches

2025

Inductive and transductive node embedding analysis on bipartite graphs

- Oral presentation ($\frac{6}{76}$) at **AI4D3**, **NeurIPS 2023**. Published in **Nature Machine Intelligence**.

SKILLS

Languages

Python, R, Linux/Bash, LaTeX, Rust, Solidity.

Libraries

PyTorch, SciPy, NumPy, Seaborn, Scikit-learn.

Technologies

Docker, uv, Poetry, Slurm, Hydra, Git.

Machine Learning

Transformers, LLMs, Graph Neural Networks, Gradient Boosting, Autoencoders, Knowledge Graphs.

DeFi Platforms

Uniswap v3, HyperLiquid, Polymarket, dYdX.

Developed Frameworks

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