

# JESÚS DE LA FUENTE CEDENO

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## EXPERIENCE

### Softvision AI

Machine Learning Quantitative Researcher

March 2025 - Current

Prague (Remote)

- Building **mid-frequency** trading strategies on **crypto-asset derivatives**.

### 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

*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 at [ICLR](#).

### Sweetwater: An interpretable and adaptive autoencoder for efficient tissue deconvolution

2025

Autoencoder for train-test distribution shift minimization

- Poster in [MLCB 2023](#). Published at [Nucleic Acid Research](#).

### Towards a more inductive world for drug repurposing approaches

2025

Inductive and transductive node embedding analysis on bipartite graphs

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

## SKILLS

### Languages

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

### Libraries

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

### Technologies

Docker, Poetry, Slurm, Hydra, Git, AWS.

### Software

[SENA-VAE](#), [GraphGuest](#), [Sweetwater](#), [TraRe](#)

### Machine Learning

**LLMs**, **Graph Neural Networks**, Decision Trees, Autoencoders, Knowledge Graphs, Gradient-Boosting, Linear/Logistic Regression, PCA, Ensemble Learning.

### Personal

Highly self-disciplined, detail and result-oriented. Creative and self-starter. Able to work on multiple projects simultaneously, with multidisciplinary teams.

## HONORS AND AWARDS

1. **Kaggle Competitions Expert**. Highest Rank: 997<sup>th</sup> out of +200,000 competitors.

2. **Kumo AI Hackathon**: Ranking 2<sup>nd</sup> 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