

# JESÚS DE LA FUENTE CEDENO

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## EDUCATION

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**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

## EXPERIENCE

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**Softvision AI**  
Machine Learning Quantitative Researcher

March 2025 - Current  
Remote

- Designing and implementing models for MFT strategies on cryptocurrencies derivatives.

**SonyAI**  
Research Scientist Intern

Sep 2024 - March 2025  
Barcelona

- Working with LLMs on hypotheses generation for knowledge graphs and link prediction challenges.

**DeepFi Ltd. (Startup)**  
Research Scientist Intern

May 2022 - Oct 2022  
Remote

- Designed and implemented models for liquidity provision strategies on DeFi protocols.

## ML PROJECTS LED

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**Interpretable Causal Representation Learning for Biological Data in the Pathway Space** 2024  
Interpretable framework with theoretical guarantees

- Poster at [AIDrugX](#), [NeurIPS 2024](#). Published at [ICLR 2025](#).

**Sweetwater: An interpretable and adaptive autoencoder for efficient tissue deconvolution** 2023  
Autoencoder for train-test distribution shift minimization

- Poster in [MLCB 2023](#). *Under second review* at [Nucleic Acid Research](#). ([arXiv](#)).

**Towards a more inductive world for drug repurposing approaches** 2022  
Inductive and transductive node embedding analysis on bipartite graphs

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

**Bayesian machine learning enables transcriptional rewiring** 2021  
Bayesian inference model with sparsity constraints

- Oral presentation ( $\frac{10}{43}$ ) in [ISMB/ECCB 2021](#). Published in [Cancer Research](#).

## SKILLS

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### 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, Generative Models, Autoencoders, Knowledge Graphs, Linear/Logistic Regression, SVM, 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

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1. **Kaggle Competitions Expert.** Ranking 1,581<sup>th</sup> out of 204,302 competitors. user: [jdlfuentec](#). 2024
2. **Kumo AI Hackathon:** Raking 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