



Jordi Cerdà-Bautista

València – Spain

✉ jordicerdabautista@gmail.com — jordi.cerda@uv.es

in jordi-cerdà-bautista-93b1091bb •  jordicbau

 opHw5dAAAAAJ •  0000-0003-4512-6005

Education

Universitat de València

PhD Candidate at Image Processing Laboratory (IPL)

Thesis:

Supervisors: Gustau Camps-Valls & Vasileios Sitokoustantinou

València, Spain

Sep. 2022–Present

Universitat de València

Master's Degree in Data Science

Thesis: Deep Learning Methods for Atmospheric Correction of Satellite Images

Supervisors: Luis Gómez Chova & Gonzalo Mateo García

València, Spain

2020–2022

Università degli Studi di Torino

ERASMUS Program

Turin, Italy

2018–2019

Universitat de València

Physics Degree

Thesis: Interference with a spatially incoherent polarized source

Supervisors: Genaro Saavedra Tortosa & Juan Carlos Barreiro Hervás

València, Spain

2015–2020

Experience

Image Processing Laboratory (IPL)

PhD Candidate, València, Spain

Universitat de València

Feb. 2022–Present

Capgemini S.A.

Data Scientist Internship

València, Spain

Oct. 2021–Feb. 2022

Publications

Journal Papers.....

2024: J. M. Tárraga, E. Sevillano-Marco, J. Muñoz-Marí, M. Piles, V. Sitokoustantinou, M. Ronco, M. T. Miranda, **J. Cerdà**, G. Camps-Valls. "Causal discovery reveals complex patterns of drought-induced displacement" *IScience* 27 (9)

2024: V. Sitokoustantinou, E.D.S. Porras, **J.C Bautista**, M. Piles, I. Athanasiadis, G. Camps-Valls. "Causal Machine Learning for Sustainable Agroecosystems." *arXiv preprint arXiv:2408.13155*

Conference Papers.....

2024: **J. Cerdà-Bautista**, J.M. Tárraga, V. Sitokoustantinou, G. Camps-Valls. "Causal Evaluation of Humanitarian Aid on Food Security." *EGU General Assembly Conference Abstracts*, 17312.

2024: **J. Cerdà-Bautista**, J.M. Tárraga, V. Sitokoustantinou, G. Camps-Valls. "Assessing the Causal Impact of Humanitarian Aid on Food Security." *IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium*.

2023: **J. Cerdà-Bautista**, J. María Tárraga, G. Varando, A. Arribas, T. Shepherd, G. Camps-Valls. "Causal Inference to Study Food Insecurity in Africa." *EGU General Assembly Conference Abstracts*, EGU-15000

Projects

Jan. 2024–Present: *ThinkingEarth*, European Union's Horizon Europe Research and Innovation Program, Universitat de València

Jun. 2023–Jan. 2024: *Causal4Africa*, Microsoft Climate Research Initiative, Universitat de València

Feb. 2022–Apr. 2023: *Causal inference in the human-biosphere coupled system (SCALE)*, funded by Fundación BBVA, Universitat de València

Conferences and Presentations

Jun. 2025: Presentation at LPS25

23–27 Jun. 2025: Attendance to the 2025 Living Planet Symposium (LPS), European Space Agency (ESA), Vienna, Austria

29 Apr. 2025: Presentation: *Operational and actionable Acute Food Insecurity modelling* at EGU, European Geosciences Union, Vienna, Austria

28 Apr. 2025: Presentation: *Hierarchical Causal Graph-Based Methods for Imputing Food Insecurity* at EGU, European Geosciences Union, Vienna, Austria

9 Jul. 2024: Presentation: *Assessing the Causal Impact of Humanitarian Aid on Food Security* at IGARSS 2024, Athens, Greece

7–12 Jul. 2024: Attendance to the 2024 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), IEEE, Athens, Greece

13 May 2024: Poster presentation: *Evaluating the Causal Impact of Humanitarian Interventions on Food Insecurity in Climate-Vulnerable Regions of Africa*, at the EO for Agriculture under Pressure (EO4AGRI) Workshop, European Space Agency (ESA), Frascati, Italy

18 Apr. 2024: Presentation: *Causal evaluation of humanitarian aid on food security*, at EGU, European Geosciences Union, Vienna, Austria

14–19 Apr. 2024: Attendance to the EGU General Assembly Conference 2024, European Geosciences Union, Vienna, Austria

24 Oct. 2023: Poster Presentation: *Understanding food insecurity in Africa through data-driven causal inference methods* at WCRP, Kigali, Rwanda (Awarded best in-person poster)

23–27 Oct. 2023: Attendance to the WCRP: Open Science Conference 2023, World Climate Research Programme, Kigali, Rwanda

15 Jun. 2023: Poster Presentation: *Causal Inference to Study Food Insecurity in Africa* at the ProbAI School, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

12–16 Jun. 2023: Attendance to the Nordic Probabilistic AI (ProbAI) School, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

28 Apr. 2023: Presentation: *Causal Inference to Study Food Insecurity in Africa* at EGU, European Geosciences Union, Vienna, Austria

24–28 Apr. 2023: Attendance to the EGU General Assembly Conference 2023, European Geosciences Union, Vienna, Austria

17–21 Apr. 2023: Attendance to the *When Causal Inference meets Statistical Analysis* Conference, National Conservatory of Arts and Crafts, Paris, France

Courses and Certifications

Courses related to Machine Learning.....

- AI For Everyone (Coursera)
- Mathematics for Machine Learning: Linear Algebra (Coursera)
- Machine Learning with TensorFlow on Google Cloud Specialization (Coursera - 5 Courses)
- Advanced Machine Learning on Google Cloud (Coursera - 5 Courses)
- Deep Learning for Earth Sciences (Universitat de València)

- Kernel Methods in Machine Learning (Universitat de València)
- Causal Discovery and Inference Course (Universitat de València)

Courses related to Big Data/Spark.....

- Introduction to Big Data (Coursera)
- Apache Spark Fundamentals (Pluralsight)
- Getting Started with Spark 2 (Pluralsight)
- Distributed Computing with Spark SQL (Coursera)
- Cleaning and Exploring Big Data using Pyspark (Coursera)

Courses related to Cloud Computing.....

- Cloud Computing Basics (Cloud 101) (Coursera)
- Google Cloud Fundamentals: Core Infrastructure (Coursera)

Technical Skills

Programming Languages: Python, R, SQL, MATLAB

Machine Learning Frameworks: TensorFlow, PyTorch, DoubleML

Big Data and Web Tools: PySpark, R Shiny, Dash, Flask, Git

Web Development: HTML, CSS, JavaScript

Other Tools: LaTeX, Microsoft Office

Languages

Catalan: Mother tongue

Spanish: Mother tongue

English: Fluent (B2 - Cambridge FCE)

Italian: Intermediate (B1 - official CELI 2)

References

Available upon request.