Jordi Cerdà-Bautista

València – Spain

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Education

Universitat de València   **València, Spain**
PhD Candidate at Image Processing Laboratory (IPL)   *Sep. 2022–Present*
Thesis:
Supervisors: Gustau Camps-Valls & Vasileios Sitokonstantinou

Universitat de València   **València, Spain**
Master's Degree in Data Science   *2020–2022*
Thesis: Deep Learning Methods for Atmospheric Correction of Satellite Images
Supervisors: Luis Gómez Chova & Gonzalo Mateo García

Università degli Studi di Torino   **Turin, Italy**
ERASMUS Program   *2018–2019*

Universitat de València   **València, Spain**
Physics Degree   *2015–2020*
Thesis: Interference with a spatially incoherent polarized source
Supervisors: Genaro Saavedra Tortosa & Juan Carlos Barreiro Hervás

Experience

Image Processing Laboratory (IPL)   **Universitat de València**
PhD Candidate, València, Spain   *Feb. 2022–Present*

Capgemini S.A.   **València, Spain**
Data Scientist Internship   *Oct. 2021–Feb. 2022*

Publications

Journal Papers

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

2024: V. Sitokonstantinou, 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. Sitokonstantinou, G. Camps-Valls. "Assessing the Causal Impact of Humanitarian Aid on Food Security." IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium.

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

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

7 Dec. 2025: Poster presentation: *Causal Effects of Price Spikes on Food Insecurity* at the EurIPS 2025 Workshop *Causality for Impact*, Copenhagen, Denmark

2–7 Dec. 2025: Attendance to the EurIPS 2025 Conference, Copenhagen, Denmark

24 Jun. 2025: Presentation: *Human and Environmental Causal Effects on Food Security in Africa* at LPS 2025, Vienna, Austria

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