



# Jordi Cerdà-Bautista

València – Spain

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## 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. "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. Sitokoustantinou, 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

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**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

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**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

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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

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**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

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**Catalan:** Mother tongue

**Spanish:** Mother tongue

**English:** Fluent (B2 - Cambridge FCE)

**Italian:** Intermediate (B1 - official CELI 2)

## References

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Available upon request.