

# Jesús García Sánchez

PhD Candidate. Physicist. Biomathematician



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## Professional Experience

- Mar. 2025 - Now      **Predoctoral Research Fellow** at University of Granada.
- Nov. 2023 - Mar. 2025      **Project Research Associate** at University of Granada.
- Jan. 2023 - Nov. 2023      **Data Scientist** at Eurofins Cavendish.
- Sep. 2022 - Jan. 2023      **Junior Programmer** at T-Systems Iberia.
- Jan. 2020 - Dec. 2020      **Educational Activities Technician** Internship at Parque de las Ciencias Granada.


## Education

- 2024      **MSc in Physics and Mathematics. Specialization in Biomathematics.** University of Granada
- 2022      **BSc in Physics.** University of Granada

## Research Articles

- 2025      Fernandez-Carabantes, J., Titos, M., D'Auria, L., Garcia, J., Garcia, L., Benitez, C. RNN-DAS: A New Deep Learning Approach for Detection and Real-Time Monitoring of Volcano-Tectonic Events Using Distributed Acoustic Sensing. Journal of Geophysical Research: Solid Earth, 130, e2025JB031756, 2025. (ISI'23): 4.24 (Q1 – Geophysics).  
[Link](#) 

## Research Projects

- 2025 - Now      Multi-scale Spatio-Temporal Analysis of Research Data (MuSTARD). Reference: PID2023-152301OB-I00. [Link](#) 
- 2023 - 2025      DigiVolCan - una infraestructura digital para la previsión de erupciones volcánicas en Canarias. Reference: PLEC2022-009271.
- 2023      Investigación y desarrollo de elementos específicos para la mitigación de ruido submarino generado por obras portuarias y dragados. (CDTI project).

## International Workshops and Conferences

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- 2025      **Three Minute Thesis (3MT) Competition Winner** (1st place out of 101 participants) at IEEE International Geoscience and Remote Sensing Symposium 2025, Brisbane (Australia). [Link](#)
- 2025      García Sánchez, J., García, L., D'Auria, L., Fernández-Carabantes, J., Benítez Ortúzar, C., Camacho, J. **Volcanic eruption forecast using PCA**. IEEE International Geoscience and Remote Sensing Symposium 2025, Brisbane (Australia). [Link](#)
- 2025      **Chair** at IEEE International Geoscience and Remote Sensing Symposium 2025, Brisbane (Australia)
- 2025      García Sánchez, J., Camacho, J., García, L., Sorochan Armstrong, M. **Multivariate exploratory data analysis of spatio-temporal data using data fusion, FFT and component models**. Spatial Statistics 2025: At the Dawn of AI, Noordwijk (The Netherlands). [Link](#)
- 2024      García, J., Camacho, J., Dey, P.S., Fakhruzi, I., Benítez, C., Barrancos, J., D'Auria, L., García, L., **Exploratory Data Analysis of Seismic Data using Distributed Acoustic Sensing and Principal Component Analysis**. 9th International Conference in Spectral Imaging-IASIM, Bilbao (Spain)

## National Workshops and Conferences

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- 2025      García-Sánchez, J., Camacho, J., García L., Benítez-Ortúzar, C., D'Auria, L. **Forecasting volcanic eruptions using interpretable multivariate analysis**. CITIC-Coffee 2025, Granada.

## Awards

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- 2025      **Excellence in Technical Communication** Student Prize Award (3MT First Place out of 101 participants), IEEE Geoscience and Remote Sensing Society.

## Teaching and Supervisions

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- 2025      Teaching: Network Fundamentals. Bachelor in Computer Engineering. University of Granada.
- 2025      Supervision: Bachelor in Computer Engineering an Mathematics' Thesis: "Añalisis Multivariante de Datos Sísmicos" by Santiago Hernández Hernández. University of Granada.
- 2023      Online course: Introducción a la programación como herramienta. Recursos para el uso de Python. #YoSigoPublicando. Universidad de Granada [Link](#)

## Software

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2025      MSPC-Seismic: DigiVolCan's real time monitoring and diagnosis system of seismic signals. [Link](#)

## Fellowships

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Mar. 2025 - Now      **Predoctoral Research Fellow.** Project (FPI-funded): Multi-scale Spatio-Temporal Analysis of Research Data (MuSTARD). Reference: PID2023-152301OB-I00. University of Granada.

## Science Outreach and Public Engagement

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Sep. 2025      **Workshop: "Decisiones espacio-temporales"** at European Researchers' Night, Granada. [Link](#)

Sep. 2025      **Talk: "¿Cuándo falla la ciencia?"** at European Researchers' Night, Granada. [Link](#)

Apr. 2025      **Workshop: "Decisiones espacio-temporales"** at Feria de las Ingenierías ETSIT, Universidad de Granada. [Link](#)