

Marc Semper Lloret

Associate lecturer and researcher working on reliable spatiotemporal artificial intelligence, graph neural networks and environmental forecasting.

POSITION	INSTITUTION	DEPARTMENT	RESEARCH GROUP
Associate Lecturer and Researcher	University of Alicante	Computer Science and Artificial Intelligence	ANVIDA

CONTACT

marc.semper@ua.es

Alicante, Spain

IDENTIFIERS

ORCID
UA research portal
CVNet
Google Scholar
Scopus
Web of Science
RUA repository

RESEARCH INTERESTS

Spatiotemporal AI
Graph neural networks
Environmental forecasting
Data quality and uncertainty
Robust model evaluation
Decision support

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Profile

Marc Semper Lloret is an associate lecturer and researcher in the Department of Computer Science and Artificial Intelligence at the University of Alicante, where he is a member of the Network Data Analysis and Visualisation research group.

His research focuses on reliable spatiotemporal artificial intelligence for environmental monitoring, forecasting and decision support. His work covers graph neural networks, robustness under evaluation uncertainty, sensor data quality and applications to air quality, atmospheric observations, greenhouse gases and urban noise. He publishes scientific work as **Marc Semper**.

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Appointments

Current

Associate Lecturer
University of Alicante
Department of Computer Science and Artificial Intelligence · Network Data Analysis and Visualisation (ANVIDA)

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Education

2025

PhD in Computer Science
University of Alicante
Thesis: *Modelado espacio-temporal con redes neuronales para la predicción de fenómenos ambientales*. Supervised by Manuel Curado Navarro and Jose Francisco Vicent Francés.

Publications

2026

A practical decision-support system for robust post-training model selection in spatiotemporal forecasting

Marc Semper, Manuel Curado, Jose F. Vicent, Leandro Tortosa

Knowledge-Based Systems, article 116673, 2026 · DOI: 10.1016/j.knosys.2026.116673

2026

Multi-Dataset Training for Improved Accuracy in Spatio-Temporal Problems: An Explainable Analysis

Javier García-Sigüenza, Alberto Real-Fernández, Faraón Llorens-Largo, Rafael Molina-Carmona, **Marc Semper**

Mathematics, vol. 14, no. 5, article 908, 2026 · DOI: 10.3390/math14050908

2026

Global forecasting of aerosol optical depth through a deep learning spatiotemporal modeling

Marc Semper, Manuel Curado, Jose F. Vicent

International Journal of Environmental Science and Technology, vol. 23, no. 1, article 69, 2026 · DOI: 10.1007/s13762-025-06905-4

2026

Spatio-temporal graph neural network for inter-city air quality forecasting

Jose F. Vicent, Manuel Curado, **Marc Semper**

International Journal of Environmental Science and Technology, vol. 23, no. 1, article 63, 2026 · DOI: 10.1007/s13762-025-06850-2

2025

Noise Pollution Prediction in a Densely Populated City Using a Spatio-Temporal Deep Learning Approach

Marc Semper, Manuel Curado, Jose Luis Oliver, Jose F. Vicent

Applied Sciences, vol. 15, no. 10, article 5576, 2025 · DOI: 10.3390/app15105576

2024

Global forecasting of carbon concentration through a deep learning spatiotemporal modeling

Marc Semper, Manuel Curado, Jose F. Vicent

Journal of Environmental Management, vol. 371, article 122922, 2024 · DOI: 10.1016/j.jenvman.2024.122922

Teaching

University and vocational teaching experience across artificial intelligence, programming, mathematics, networks, systems and data science.