



Instituto Universitario de Investigación
Biocomputación y Física
de Sistemas Complejos
Universidad Zaragoza

Ana Carmen Cebrián

She is a full professor in the Dept. of Statistical Methods at the University of Zaragoza. She started her research studying the development of methods based on the theory of extremes with climatic applications, when she did her PhD thesis in 1999. She did a postdoc at the Institute of Statistics of the Université Catholique de Louvain (Belgium), working on the analysis of extremes. In 2001, she returned to Zaragoza and continued her research. She has been a member of Stochastic Models, recognized as a reference group by the Government of Aragon since 2016, and is a member of BIFI since 2021.



Researcher profile

Currently, she is a R4 researcher and principal investigator of two national research projects. She studies statistical modeling of space-time models within the framework of Bayesian analysis, primarily with applications in climatic data analysis. These models focus on the analysis of extreme values (exceedances over thresholds, quantiles, and records). Her team collaborates with Professor Alan Gelfand and other members of Duke University in developing space-time models within the framework of hierarchical models, and with Professor Giovanna Jona-Lasinio and her team from La Sapienza University in Rome.

Importance of her research

Statistical modeling is fundamental in multiple fields, and the models developed are of great importance to her research in assessing and quantifying the effects of global warming on temperature and other climate signals. She has participated in projects studying the effects of climate change on hydrological models. She has collaborated on four contracts with the Ebro Hydrographic Confederation (CHE) to analyze river characteristics and predict the Ebro River level in situations of potential flood risk. She was also part of the Biostatnet network, which focuses on the development of statistical tools for biodata analysis.

