Antonio Alcántara Mata

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Email: antalcan@est-econ.uc3m.es **Office**: 7.3.J10, UC3M Leganés Campus

Phone: +34 665019751 LinkedIn: /in/antonio-alcantara

Research interests Data-Driven Optimization, Machine Learning, Probabilistic Forecasting

Education University Carlos III of Madrid Madrid, Spain

PhD in Mathematical Engineering Dec 2021 – Present

Director: Prof. Carlos Ruiz Mora

University of Granada Granada, Spain

Master's Degree in Applied Statistics Sept 2020 – July 2021

GPA: 9.67/10

University Carlos III of Madrid Madrid, Spain

Bachelor's Degree in Statistics and Business Sept 2016 – July 2020

GPA: 9.24/10

Exchange semester at University of Padova (Italy)

Working Papers Deep Neural Networks for Quantile Estimation of Renewable Regional

Energy Production.

Antonio Alcántara, Inés M Galván, Ricardo Aler.

Direct Estimation of Prediction Intervals for Solar and Wind Regional

Energy Forecasting with Deep Neural Networks.

Antonio Alcántara, Inés M Galván, Ricardo Aler.

Pareto Optimal Prediction Intervals with Hypernetworks.

Antonio Alcántara, Inés M Galván, Ricardo Aler.

Research experience **Predoctoral Researcher**

Director: Carlos Ruiz Mora Dec 2021 – Present

FPU Fellowship (University Faculty Training programme).

Probabilistic forecasting and meta-heuristic optimization of solar/wind resources in the Iberian Peninsula for a low carbon power sys-

tem

Mentors: Ricardo Aler, Inés M Galván Jan 2021 – Nov 2021

Full time Research Assistant funded by the Agencia Estatal de Investigación

(PID2019-107455RB-C22).

Teaching experience Teaching assistant, Statistics (UC3M) Spring 2022

Statistics for Bachelor's in Electrical Engineering

Topics covered: Descriptive statistics, probability, random variables and probability models, statistical inference, hypothesis testing, quality control and regression

Honors and scholarships

FPU Fellowship (University Faculty Training programme) 2021-2025
Extraordinary End of Studies Award (University Carlos III of Madrid) 2020
Excellence Award (Social Council, University Carlos III of Madrid) 2019
Santander Progreso Scholarship (Santander Bank) 2019
Excellence Award (Comunidad de Madrid) 2018

Industry experience

Generali A.I.E., Data Office

Madrid, Spain

Data Analyst Intern

Oct 2019 - Feb 2020

Data Cleansing tasks with R for data directories. Cooperation in the design of a relational system for data directories within the framework of data governance and its inclusion into the AXON platform. Statistical analysis of data quality controls.

References

Carlos Ruiz Mora

Statistics Department, University Carlos III of Madrid

Leganés (Madrid), Spain

Email: caruizm@est-econ.uc3m.es

Ricardo Aler Mur

Computer Science Department, University Carlos III of Madrid

Leganés (Madrid), Spain Email: aler@inf.uc3m.es

Inés María Galván León

Computer Science Department, University Carlos III of Madrid

Leganés (Madrid), Spain Email: igalvan@inf.uc3m.es

Skills **Programming**

Proficient in: R, Python.

Familiar with: SQL, Matlab, Stata, SPSS.

Languages

Spanish (fluent), English (advanced), Italian (basic)