

CV Date	21/02/2024
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Part A. PERSONAL INFORMATION

First Name	Javier		
Family Name	Huertas Tato		
Sex	Not Specified	Date of Birth	26/08/1992
ID number Social Security, Passport	50996861L		
URL Web			
Email Address	javier.huertas.tato@upm.es		
Open Researcher and Contributor ID (ORCID)	0000-0003-4127-5505		

A.1. Current position

Job Title	Ayudante Doctor		
Starting date	2021		
Institution	Universidad Politécnica de Madrid		
Department / Centre	Departamento de Sistemas Informáticos / ETSISI		
Country		Phone Number	
Keywords			

A.3. Education

Degree/Master/PhD	University / Country	Year
Programa Oficial de Doctorado en Ciencia y Tecnología Informática	Universidad Carlos III de Madrid	2019
Máster en ciencia y tecnología informática	Universidad Carlos III de Madrid	2016
Graduado o Graduada en Ingeniería Informática	Universidad Carlos III de Madrid	2015

Part B. CV SUMMARY

I started my career with a PhD that I pursued until 2019 at Universidad Carlos III de Madrid, under an FPI scholarship for a competitive national project (PROSOL). During the 2019-20 academic year, I worked as a part-time professor at Universidad Europea. From mid-2020, I was hired as a researcher in the CYNAMON project (funded by the CAM) and later in the CIVIC project (funded by the BBVA Foundation). At the end of 2020, I was accredited as an Assistant Professor Doctor and later joined the Department of Computer Systems at Universidad Politécnica de Madrid. Currently, I carry out my research activities as a member of the Artificial Intelligence and Data Analysis group (AIDA: <https://aida.etsisi.upm.es/>) of the aforementioned university.

Throughout my research career, I have published 12 articles in journals indexed in the JCR (6 Q1, 4 Q2, and 2 Q3/Q4), as well as 11 publications in international conferences, all related to the field of Artificial Intelligence (e.g., IEEE CEC, IDEAL, etc.). As of March 3, 2022, I have 237 citations and an h-index of 8 (GS: <https://scholar.google.es/citations?user=5XOhXooAAAAJ>). In addition to my publications, I have participated in 4 competitive research projects at the national level (CIVIC, XAI-DISINFO, DisTrack, PROSOL). I have also contributed as a reviewer to numerous high-impact journals (e.g., Information Fusion, Information Processing and Management, Ambient Intelligence and Humanized Computing...) and have been part of four organizing committees in conferences (e.g., IDEAL, PRAXAI, UCAMI...). In addition to my research training, I have taught more than 800 hours of classes in public and private universities, all of them in official undergraduate degrees and always in the field of computer science (e.g., Bachelor's degree in Computer Science, Bachelor's degree in Software Engineering, Bachelor's degree in Computer Engineering, etc.). I have participated in a teaching innovation project at UPM and have participated in several presentations at educational innovation conferences. Among my other teaching merits, I would like to highlight

the supervision of 3 undergraduate final projects (TFGs), 1 Master's thesis (TFM), and my contribution to the development of a free OCW course (Artificial Neural Networks <https://ocw.uc3m.es/course/view.php?id=158&lang=es>). Finally, I am a co-director of a doctoral thesis with an expected completion date in the last quarter of 2023 (student Ms. Helena Liz López).

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 Scientific paper.** Huertas-Tato, Javier; Galván-León, Inés; Aler-Mur, Ricardo; Rodríguez-Benítez, Francisco J.; Pozo-Vázquez, David. 2021. Using a Multi-view Convolutional Neural Network to monitor solar irradiance. *Neural Computing and Applications*. Springer.
- 2 Scientific paper.** 2023. Deep learning for understanding multilabel imbalanced Chest X-ray datasets. *Future Generation Computer Systems*. Elsevier.
- 3 Scientific paper.** Huertas-García, Álvaro; Martín, Alejandro; Huertas-Tato, Javier; Camacho, David. 2022. Exploring Dimensionality Reduction Techniques in Multilingual Transformers. *Cognitive Computation*. Springer US New York. pp.1-23.
- 4 Scientific paper.** Martín, Alejandro; Huertas-Tato, Javier; Huertas-García, Álvaro; Villar-Rodríguez, Guillermo; Camacho, David. 2022. FacTeR-Check: Semi-automated fact-checking through semantic similarity and natural language inference. *Knowledge-Based Systems*. Elsevier. 251, pp.109265-109265.
- 5 Scientific paper.** Huertas-Tato, Javier; Martín, Alejandro; Fierrez, Julian; Camacho, David. 2022. Fusing CNNs and statistical indicators to improve image classification. *Information Fusion*. Elsevier. 79, pp.174-187.
- 6 Scientific paper.** Huertas-Tato, Javier; Martín, Alejandro; Camacho, David. 2022. SILT: Efficient transformer training for inter-lingual inference. *Expert Systems with Applications*. Pergamon. 200, pp.116923-116923.
- 7 Scientific paper.** Galván, Inés M; Huertas-Tato, Javier; Rodríguez-Benitez, Francisco J; Arbizu-Barrena, Clara; Pozo-Vazquez, David; Aler, Ricardo. 2021. Evolutionary-based prediction interval estimation by blending solar radiation forecasting models using meteorological weather types. *Applied Soft Computing*. Elsevier. 109, pp.107531-107531.
- 8 Scientific paper.** Rodríguez-Benítez, Francisco J.; Arbizu-Barrena, Clara; Huertas-Tato, Javier; Aler-Mur, Ricardo; Galván-León, Inés; Pozo-Vázquez, David. 2020. A short-term solar radiation forecasting system for the Iberian Peninsula. Part 1: Models description and performance assessment. *Solar Energy*. 195, pp.396-412.
- 9 Scientific paper.** Huertas-Tato, Javier; Aler, Ricardo; Galván, Inés M.; Rodríguez-Benítez, Francisco J.; Arbizu-Barrena, Clara; Pozo-Vázquez, David. 2020. A short-term solar radiation forecasting system for the Iberian Peninsula. Part 2: Model blending approaches based on machine learning. *Solar Energy*. 195, pp.685-696.
- 10 Scientific paper.** 2019. Improving Prediction Intervals Using Measured Solar Power with a Multi-Objective Approach. *Energies*. MDPI.
- 11 Scientific paper.** Huertas Tato, Javier; Centeno Brito, Miguel. 2019. Using smart persistence and random forests to predict photovoltaic energy production. *Energies*. 12-1, pp.100-100.
- 12 Scientific paper.** Huertas-Tato, Javier; Rodríguez-Benítez, FJ; Arbizu-Barrena, Clara; Aler-Mur, Ricardo; Galvan-Leon, Ines; Pozo-Vázquez, David. 2017. Automatic Cloud-Type Classification Based On the Combined Use of a Sky Camera and a Ceilometer. *Journal of Geophysical Research: Atmospheres*. 122-20.

C.2. Conferences and meetings

- 1 Guillermo Villar-Rodríguez; Javier Huertas-Tato; Alejandro Martín; David Camacho. A la desinformación le gusta la compañía: Representación de bulos de Twitter sobre la COVID-19 mediante embeddings. XIII Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. Universidad de Granada. 2021. Spain.
- 2 Álvaro Huertas-García; Alejandro Martín; Javier Huertas-Tato; David Camacho. Evaluación de modelos multilingües pre-entrenados en similitud semántica para la lucha contra la desinformación. XIII Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. Universidad de Granada. 2021. Spain.
- 3 Gracia-Cuesta, E.; López-López, J.M.; Gómez-Vergel, D.; Huertas-Tato, Javier. An Adaptive Cognitive Model to Integrate Machine Learning and Visual Streaming Data. 15th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2020). 2020.
- 4 Huertas-Tato, Javier; Martín, Alejandro; Camacho, David. Cloud type identification using data fusion and ensemble learning. International Conference on Intelligent Data Engineering and Automated Learning. Springer, Cham. 2020.
- 5 Huertas-Tato, Javier; Aler, Ricardo; Rodríguez-Benítez, F. J.; Arbizu-Barrena, C.; Pozo-Vázquez, D.; Galván, Inés María. Predicting Global Irradiance Combining Forecasting Models Through Machine Learning. International Conference on Hybrid Artificial Intelligence Systems. 2018.
- 6 Martín-Vázquez, Rubén; Huertas-Tato, Javier; Aler, Ricardo; Galván, Inés María. Studying the Effect of Measured Solar Power on Evolutionary Multi-objective Prediction Intervals. International Conference on Intelligent Data Engineering and Automated Learning. 2018.
- 7 Huertas, J; Rodríguez-Benítez, J; Pozo, D; Aler, R; Galván, Inés M. Genetic programming to extract features from the whole-sky camera for cloud type classification. International Conference on Renewable Energies & Power Quality (ICREPEQ 2019). 2017.
- 8 García-Soto, Eva; Martín, Alejandro; Huertas-Tato, Javier; Camacho, David. Android Malware Detection Through a Pre-trained Model for Code Understanding. Springer International Publishing Cham.
- 9 Huertas-García, Álvaro; Huertas-Tato, Javier; Martín, Alejandro; Camacho, David. Countering misinformation through semantic-aware multilingual models. Springer International Publishing.
- 10 Huertas-Tato, Javier; Martín, Alejandro; Huertas-García, Álvaro; Camacho, David. Generating Authorship Embeddings with Transformers. IEEE.

C.3. Research projects and contracts

- 1 **Project.** MARTINI: Malicious actors profiling and detection in Online Social Networks through Artificial Intelligence. (Universidad Politécnica de Madrid). 01/12/2022-30/11/2025.
- 2 **Project.** XAI-DisInfodemics: eXplainable AI for disinformation and conspiracy detection during infodemics. (Universidad Politécnica de Valencia). 01/12/2021-30/11/2024.
- 3 **Project.** DisTrack: Tracking disinformation on Online Social Networks. (Universidad Politécnica de Madrid). 01/11/2021-31/12/2023.
- 4 **Project.** IBERIFIER: Iberian Digital Media Research and Fact-Checking Hub. (EUROPEAN COMMISSION Innovation and Networks Executive Agency). 20/05/2021-20/11/2023. 1.470.000 €.
- 5 **Project.** CIVIC: Intelligent characterisation of the veracity of the information related to COVID-19. Alejandro Martín García. (Fundación BBVA). 01/10/2020-01/10/2022. 150.000 €.
- 6 **Project.** CYNAMON: Cybersecurity, Network Analysis And Monitoring for the next generation Internet. David Camacho Fernández. (Universidad Rey Juan Carlos). 01/01/2019-01/01/2020. 885.500 €.
- 7 **Project.** Aprendizaje y optimización evolutiva para predicción e integración de radiación solar. Ricardo Aler Mur. (Universidad Carlos III de Madrid). 01/09/2015-01/09/2018. 107.000 €.