

Daniel Fernández Martínez

MAY, 2022

GRADUATE STUDIES	<p>University of Extremadura, Badajoz, Spain <i>Master of Science</i>, Simulation in Science and Engineering</p> <p>University of Extremadura, Badajoz, Spain <i>Bachelor of Science</i>, Industrial Electronics and Control Engineering, Erasmus programme: Bialystok University of Technology (Poland), SICUE National Exchange programme: University of Cantabria (Spain)</p>	<p>Nov' 21</p> <p>Jul' 20</p>
RESEARCH INTERESTS	Computational Fluid Dynamics, Bioengineering, Data-Driven Models Machine Learning, Time Series Forecasting, Reduced Order Models, Optimization	
JOURNAL PUBLICATIONS	<p>Fernández-Martínez, D., Jaramillo-Morán, M.A. Multi-Step Hourly Power Consumption Forecasting in a Healthcare Building with Recurrent Neural Networks and Empirical Mode Decomposition. <i>Sensors</i> 2022, 22, 3644. Q1, IF: 3.576 DOI: 10.3390/s22103664</p> <p>Jaramillo-Morán, M.A., Fernández-Martínez, D., García-García, A., Carmona-Fernández, D. Improving Artificial Intelligence Forecasting Models Performance with Data Preprocessing: European Union Allowance Prices Case Study. <i>Energies</i> 2021, 14, 7845. Q3, IF: 3.004 DOI: 10.3390/en14237845</p>	
CONFERENCE PUBLICATIONS	<p>Fernández-Martínez, D., Jaramillo-Morán, M.A., Carmona-Fernández, D., Rodríguez-Méndez, D. EIIGraph: conexiones Universidad - Empresa mediante la Teoría de Grafos. <i>II Congreso Ágora Internacional. Educación, Investigación y Empleo</i>. Nov' 23 - Nov'27, Madrid, Spain</p>	
RESEARCH EXPERIENCE	<p>Fluid dynamics technology applied to diagnosis and personalized treatment of high-mortality cardiovascular pathologies Supervisors: Dr. C. Fernández LLera & Dr. R. Agujetas Ortiz Feb '22 - Present</p> <ul style="list-style-type: none">- Position: Scientific Researcher, Fluid Mechanics Group, School of Industrial Engineering (UEX), Badajoz, Spain- Funding: Ayudas destinadas a la realización de proyectos de investigación en los centros públicos de I+D+I de la Comunidad Autónoma de Extremadura <p>Electrical load forecasting with advanced machine learning techniques Supervisor: Dr. M.A. Jaramillo Morán Nov '20 - Feb '22</p> <ul style="list-style-type: none">- Position: Research Support Engineer, Group of Industrial Applications of Artificial Intelligence, School of Industrial Engineering (UEX), Badajoz, Spain- Funding: Ayudas para el fomento de la contratación de personal de apoyo a la investigación en la Comunidad Autónoma de Extremadura <p>An AI-based recommendation system for “green routes” in sustainable urban environments Supervisor : Dr. Filippo Bistaffa Oct '21 - Nov '21</p>	

- Position: JAE Intro Fellow, Group of Multiagent Systems, Artificial Intelligence Research Institute (IIIA-CSIC), Spanish National Research Council, Barcelona, Spain
- Funding: JAE Intro ICU Fellowship, Spanish National Research Council
- Renounced due to incompatibility with current contract

FELLOWSHIPS & AWARDS	JAE Intro ICU Fellow , Spanish National Research Council (CSIC)	<i>Oct' 21</i>
	Erasmus Grant , European Commission	<i>Sep' 19</i>
	SICUE National Exchange Programme , CRUE Universidades Españolas	<i>Sep' 18</i>

SEMINARS & TALKS	Fluids in the era of Data: Opportunities and Challenges , UEX	<i>Apr' 22</i>
COMPUTER SKILLS	Languages & Frameworks: Python, Tensorflow, Keras, C, R, Java, \LaTeX OS & other CS tools: Linux, Windows, Git Engineering software: MATLAB, Fluent, Solidworks	
TRAININGS	Introduction to 3D printing , University of Extremadura	<i>Jul' 21</i>
	Deep Learning Specialization , deeplearning.io	<i>Mar' 20 - May' 20</i>
	Object Oriented Programming in JAVA , University of Extremadura	<i>Feb' 16 - Jun' 16</i>