

Daniel Fernández Martínez

NOVEMBER, 2021

GRADUATE STUDIES	<p>University of Extremadura, Badajoz, Spain <i>Master of Science</i>, Simulation in Science and Engineering <i>Nov' 21</i></p> <p>University of Extremadura, Badajoz, Spain <i>Bachelor of Science</i>, Industrial Electronics and Control Engineering, <i>Jul' 20</i> Erasmus programme: Bialystok University of Technology (Poland), SICUE National Exchange programme: University of Cantabria (Spain)</p>
RESEARCH INTERESTS	Computational Fluids Dynamics, Bioengineering, Physics-Informed Deep Learning Machine Learning, Time Series Forecasting, Data-Driven Models, Optimization
JOURNAL PUBLICATIONS	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. IF: 3.004 DOI: 10.3390/en14237845
CONFERENCE PUBLICATIONS	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 Agora Internacional. Educación, Investigación y Empleo</i> . Nov' 23 - Nov'27, Madrid, Spain
FELLOWSHIPS & AWARDS	<p>IAE Intro ICU Fellow, Spanish National Research Council (CSIC) <i>Oct' 21</i></p> <p>Erasmus Grant, European Commission <i>Sep' 19</i></p> <p>SICUE National Exchange Programme, CRUE Universidades Españolas <i>Sep' 18</i></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 <i>Feb '22 - Present</i></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 <i>Nov '20 - Feb '22</i></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 <i>Oct '21 - Nov '21</i></p>

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

COMPUTER SKILLS

Languages & Frameworks: Python, Tensorflow, Keras, C, R, Java, L^AT_EX
OS & other CS tools: Linux, Windows, Git, Docker
Engineering software: MATLAB, Fluent, Solidworks

TRAININGS

Introduction to 3D printing, University of Extremadura *Jul' 21*
Deep Learning Specialization, deeplearning.io *Mar' 20 - May' 20*
Object Oriented Programming in JAVA, University of Extremadura *Feb' 16 - Jun' 16*