

# Daniel Fernández Martínez

NOVEMBER, 2021

GRADUATE STUDIES	<p><b>University of Extremadura</b>, Badajoz, Spain  <i>Master of Science</i>, Simulation in Science and Engineering <span style="float: right;"><i>Nov' 21</i></span></p> <p><b>University of Extremadura</b>, Badajoz, Spain  <i>Bachelor of Science</i>, Industrial Electronics and Control Engineering, <span style="float: right;"><i>Jul' 20</i></span>  Erasmus programme: <b>Bialystok University of Technology</b> (Poland),  SICUE National Exchange programme: <b>University of Cantabria</b> (Spain)</p>
RESEARCH INTERESTS	<p>Machine Learning, Time Series Forecasting, Data-Driven Models, Optimization  Computational Fluids Dynamics, Physics-Informed Deep Learning, Bioengineering</p>
JOURNAL PUBLICATIONS	<p>Jaramillo-Morán, M.A., <b>Fernández-Martínez, D.</b>, 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. <b>IF: 3.004</b>  DOI: <a href="https://doi.org/10.3390/en14237845">10.3390/en14237845</a></p>
CONFERENCE PUBLICATIONS	<p><b>Fernández-Martínez, D.</b>, 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</p>
FELLOWSHIPS & AWARDS	<p><b>JAE Intro ICU Fellow</b>, Spanish National Research Council (CSIC) <span style="float: right;"><i>Oct' 21</i></span>  <b>Erasmus Grant</b>, European Commission <span style="float: right;"><i>Sep' 19</i></span>  <b>SICUE National Exchange Programme</b>, CRUE Universidades Españolas <span style="float: right;"><i>Sep' 18</i></span></p>
RESEARCH PROJECTS	<p><b>Electrical load forecasting with advanced machine learning techniques</b>  Supervisor: Dr. M.A. Jaramillo Morán <span style="float: right;"><i>Nov '20 - Present</i></span></p> <ul style="list-style-type: none"> <li>- Position: Research Support Engineer, School of Industrial Engineering (UEX), Badajoz, Spain</li> <li>- Funding: Ayudas para el fomento de la contratación de personal de apoyo a la investigación en la Comunidad Autónoma de Extremadura</li> </ul> <p><b>An AI-based recommendation system for “green routes” in sustainable urban environments</b>  Supervisor : Dr. Filippo Bistaffa <span style="float: right;"><i>Oct '21 - Nov '21</i></span></p> <ul style="list-style-type: none"> <li>- Position: MSc Student, Artificial Intelligence Research Institute (IIIA-CSIC), Barcelona, Spain</li> <li>- Funding: JAE Intro ICU Fellow, Spanish National Research Council</li> <li>- Renounced due to incompatibility with Phd. contract</li> </ul>
COMPUTER SKILLS	<p><b>Languages &amp; Frameworks:</b> Python, Tensorflow, Keras, C, R, Java, <math>\text{\LaTeX}</math>  <b>OS &amp; other CS tools:</b> Linux, Windows, Git, Docker  <b>Engineering software:</b> MATLAB, Fluent, Solidworks</p>

## TRAININGS

**Introduction to 3D printing**, University of Extremadura

*Jul' 21*

**Deep Learning Specialization**, [deeplearning.io](https://deeplearning.io)

*Mar' 20 - May' 20*

**Object Oriented Programming in JAVA**, University of Extremadura

*Feb' 16 - Jun' 16*