



# Miguel Carpintero

PhD on Electrical Eng. | Data Science

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## PROFILE

An adaptable and enthusiastic engineer trained in data science and project management. Holds an MSc in Industrial Engineering and a PhD in Electrical Engineering at University Carlos III of Madrid. Managed different client-faced projects delivering custom technical solutions on diverse fields. Collaborated with cross-functional teams across Spain, Denmark, the USA, the UK and Australia.



## WORK EXPERIENCE

### Senior Associate / Mar 2022 - Present

#### PwC - PricewaterhouseCoopers - Madrid, SPAIN

- Working towards client success on digital transformation, product development and data modelling. Developing and maintaining client relationships as a project manager.
- Participating on technical roles developing custom scalable algorithms on pricing strategy projects. Models proposed operate with large volumes of data on different cloud architectures.

Python SQL Cloud Integration Consulting

### Data Integration Eng. / Dec 2021 - Feb 2022

#### EOLOS Floating Lidar Solutions - Barcelona, SPAIN

- Optimised an end to end data processing. Analysed, managed and automated scripts to clean and filter raw data. Assessed a cloud migration. Developed data management and programming skills.

MATLAB MS Office BOX MS Teams

### Researcher and Lecturer / Feb 2017 - Jan 2021

#### University Carlos III of Madrid (UC3M) - Madrid, SPAIN - Glasgow, UK

- Developed novel machine learning models using MATLAB and Python to filter, transform and interpret raw data. Algorithms proposed have improved state of the art models up to a 100%. Demonstrated technical, programming, and analytical skills.
- Collaborated with international colleagues in 8 data science projects with different work streams. Implemented Agile and scrum project management methodologies to optimise time and resources in the team. Enhanced leadership, teamwork, and problem-solving skills; analysed business impact and proposed real and tailored solutions for the industry with a data driven approach.

MATLAB Python G. Workspace Agile



## EDUCATION

### PhD on Electrical Engineering / 2017 - 2021

University Carlos III of Madrid (UC3M) - Madrid, SPAIN

### MSc on Industrial Engineering / 2015 - 2017

University Carlos III of Madrid (UC3M) - Madrid, SPAIN



## CERTIFICATES

### SCRUM Master

SCRUM Manager - Madrid, SPAIN / Jan 2023

### Machine Learning & Artificial Intelligence

Massachusetts Inst. of Tech. (MIT) - Boston, USA / 2019 - 2020

### AGILE Project Management Practitioner

University of Westminster - London, UK / Nov 2016



## CURRENT SIDE PROJECT

- **Volunteer** – Red Cross, Cantabria (Spain), 2021. – Participating in several projects related to climate change and sustainability.



## AWARDS

- Outstanding Thesis Award, University Carlos III of Madrid (2021)
- Best Research Paper September Highlight by IET Renewable Power Generation Journal (2020).



## SKILLS

**Languages:** Spanish (Native), English (Advanced C1)

**Python tools:** NumPy, Pandas, TensorFlow, Scikit-learn

**Project management:** Agile, SCRUM, PRINCE2, Kanban

**Soft:** Problem Solving, System-Thinking, Training & mentoring