



JAVIER RODRÍGUEZ

DEEP LEARNING RESEARCHER



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References

Elena Garcés

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Pascual Campoy

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Maria Varela

Full professor, UCM
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About me

Hello! I'm Javier, a (about to be) PhD in Artificial Intelligence. My research interests include visual perception, deep learning and unsupervised learning. I am passionate about solving computer vision problems using neural networks, and I am always looking for new challenges and opportunities to learn. Currently I'm a Research Scientist at SEDDI, working in the team behind textura.ai.

Experience

February 2023 - present

Research Scientist @ SEDDI Inc.

As a Research Scientist at SEDDI, I currently work on researching new learning based methods for improving fabric materials digitization from single images and generative modeling of SVBSDF materials among other topics. Also, I am charge of continuous improvement efforts for the neural network model behind <https://textura.ai/>.

August 2017 - February 2023

Research Scientist @ Universidad Politécnica de Madrid.

As a member of Member of the Computer Vision and Aerial Robotics Research Group, I developed learning based computer vision algorithms for aerial robotic perception, with a strong focus on applied research. During this time, i worked on my PhD. thesis, entitled: Adaptive Learning with Weak Supervision for Robotic Perception, with a focus on developing unsupervised methods to reduce the amount of data required to train deep learning models.

October 2016 - February 2020

Research Assistant @ Universidad Complutense de Madrid.

As part of two EU H2020 projects, POLAR-EM and MAGTOOLS, I developed software tools for efficient and reliable analysis of magnetic materials in electron microscopy imaging

May 2016 - October 2016

Consulting Intern @ Altran

September 2014 - May 2016

Research Assistant @ Universidad de Cádiz.

Education

2017 - 2023 - Madrid

PhD in Artificial Intelligence, Universidad Politécnica de Madrid
Just pending defense!

2016 - 2017 - Madrid

MSc in Artificial Intelligence, Universidad Politécnica de Madrid

2015 - 2016 - Cádiz

MSc in Systems Engineering and Computer Science, Universidad de Cádiz

2011 - 2015 - Cádiz

BSc in Computer Science, Universidad de Cádiz

Key skills

- Deep Learning
- Neural Networks
- Computer Vision
- Robotic Perception
- Unsupervised Learning
- Pytorch
- OpenCV
- Tensorflow
- C++
- Embedded platforms