



Carlos Villacampa Calvo

📍 Madrid

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Work experience

Graduate Teaching Assistant

COMPUTER SCIENCE DEPARTMENT. *Universidad Autónoma de Madrid (UAM).*

📍 Madrid

📅 Feb 2020 – Present

Research Assistant

MACHINE LEARNING GROUP. *Universidad Autónoma de Madrid (UAM).*

📍 Madrid

📅 Oct 2015 – Feb 2020

Business Intelligence Developer

SOPRA GROUP

Project: ÉLECTRICITÉ DE FRANCE.

• Business Objects, PowerCenter.

📍 Madrid

📅 Feb 2013 – Sept 2015

Software Development and QA Internship

INSTITUTO DE INGENIERÍA DEL CONOCIMIENTO (IIC)

📍 Madrid

📅 Sept 2012 – Feb 2013

Teaching

Fundamentals of Computer Systems

Telecommunication Technology and Service Engineering (UAM), 60h

2nd year

📅 2020–2021

Fundamentals of Computer Systems

Telecommunication Technology and Service Engineering (UAM), 60h

2nd year

📅 2019–2020

Communication Networks II

Computer Science Engineering (UAM), 60h

3rd year

📅 2018–2019

Communication Networks II

Computer Science Engineering (UAM), 30h

3rd year

📅 2017–2018

Education

PhD in Computer Science and Telecommunications

Universidad Autónoma de Madrid

- Expected graduation: January 2022.

- Thesis title: New Advanced Machine Learning Methods through Gaussian Processes.

📍 Madrid

📅 2017– Present

MSc in Research and Innovation in ICT (i2-ICT)

Universidad Autónoma de Madrid

- Master's thesis: Scalable Multi-Class Gaussian Process Classification via Expectation Propagation.

<https://repositorio.uam.es/handle/10486/677534>

📍 Madrid

📅 2015–2017

Erasmus program

Université Libre de Bruxelles

📍 Brussels

📅 2011–2012

BSc in Computer Science Engineering

Universidad Autónoma de Madrid

📍 Madrid

📅 2008–2013

Languages

Spanish: Native

English: CEFR C

French: CEFR B2

Aptis certificate

Université Libre de Bruxelles certificate

Publications

Journals:

- *Multi-class Gaussian Process Classification with Noisy Inputs*. Villacampa-Calvo C., Zaldívar B., Garrido-Merchán E. C., Hernández-Lobato D. Journal of Machine Learning Research 22, pages 1-52, 2021.
- *Alpha divergence minimization in multi-class Gaussian process classification*. Villacampa-Calvo C., Hernández-Lobato D., Neurocomputing 378, pages 210-227, 2020.

Conferences:

- *Deep Gaussian Processes using Expectation Propagation and Monte Carlo Methods*. Hernández-Muñoz G., Villacampa-Calvo C., Hernández-Lobato D., European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), Sept 2020.
- *Scalable Multi-Class Gaussian Process Classification using Expectation Propagation*. Villacampa-Calvo C., Hernández-Lobato D., International Conference on Machine Learning (ICML), Sydney, Australia, 2017. In PMLR, pages 3550–3559, July 2017.

Preprints:

- *Input Dependent Sparse Gaussian Processes*. Jafrasteh, B., Villacampa-Calvo, C., Hernández-Lobato, D., arXiv preprint arXiv:2107.07281. 2021.

Awards

Community excellence award at Qiskit Madrid Hackaton

Quantum version of *k*-means algorithm using Qiskit simulator.

🔗 <https://github.com/Morcu/q-means>



📅 May 2019

Other

- Gaussian Process Summer School 2020. Assistant.
- Machine Learning Summer School 2018. Volunteer and Co-organizer.
- Reviewer: DSAA 2021, ECML/PKDD 2021, AAAI 2020.

Continuing Education

Machine Learning

coursera

📅 Nov 2012

The Data Scientist's Toolbox

Certified course

coursera

📅 Dic 2014

R Programming

Certified course

coursera

📅 Mar 2015

Getting and Cleaning Data

Certified course

coursera

📅 Mar 2015

Exploratory Data Analysis

Certified course

coursera

📅 May 2015

Unsupervised Learning in Python

Certified course

datacamp

📅 Jun 2020

Supervised Learning with scikit-learn

Certified course

datacamp

📅 Jun 2020

Machine Learning with Tree-Based Models in Python

Certified course

datacamp

📅 Jun 2020

Extreme Gradient Boosting with XGBoost

Certified course

datacamp

📅 Apr 2021