

# BERTA FERNÁNDEZ DE LA MORENA

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<https://bertafmorena.github.io>



I consider myself passionate about learning, with a high capacity to achieve high challenges. We are approaching an era in which technology is bounded to serve society, and I want to be part of that adventure. I would like to be part of a team that shares my same values about fellowship, honesty, and motivation for development.

## EDUCATION

- 2019- 2021 **M.Sc., IMAGE PROCESING AND COMPUTER VISION**  
PPKE, Budapest-Hungary. UAM, Madrid-Spain, UBDx, Bordeaux-France.  
Erasmus Mundus Joint Master's degree.
- 2015 - 2019 **B.Sc, TELECOMMUNICATIONS ENGINEERING**  
Universidad Autónoma de Madrid  
Processing and Audio & Video Communication Profile.

## EXPERIENCE

- 2021- present **RESEARCH INTERNSHIP**  
SIGMA Technologies S.L.U  
Computer vision in the domain of Multi-Target Tracking. Research on CNN tracking algorithms.
- 2019 - 2020 **RESEARCH INTERNSHIP**  
VPULab, Universidad Autónoma de Madrid, Spain  
Computer vision in the domain of Visual Tracking. Research on CNN tracking algorithms.
- November 2018 **LOCAL COMMITTEE MEMBER – 23rd IBEROAMERICAN CONGRESS ON PATTERN RECOGNITION**  
Universidad Autónoma de Madrid, Spain
- 2014 - Present **VOLUNTEER / COMMUNITY SERVICE**  
Lo que de Verdad Importa Foundation and Mary Ward Foundation
- 2016 - Present **PRIVATE TUTOR**  
Tutoring high school students, including bilingual education.

## PROJECTS

- 2021 - Present **M.Sc THESIS**  
SIGMA Technologies S.L.U  
Research on Real-time multi-target tracking.
- 2020 –2021 **AUGMENTED REALITY APPLICATION – UNITY**  
Université de Bordeaux, Bordeaux, France
- 2019 - 2021 **TRACKING RESEARCH PROJECT**  
VPULab, EPS, Universidad Autónoma de Madrid, Spain - Université de Bordeaux, Bordeaux, France  
Research on recent *Object Tracking Model Free* algorithms based on CNN.
- 2018 - 2019 **B.Sc THESIS**  
Universidad Autónoma de Madrid, Spain  
Research on biased Facial Recognition Systems.

## AWARDS

- 2018 **UNIVERSITY ACADEMIC RECORD AWARD**  
Universidad Autónoma de Madrid, Spain  
Fulfilled all the requirements established in the bases regulated by the Community of Madrid.

## LANGUAGES

Spanish (Native)  
English (Advanced)  
French (Medium)

## COURSES

### WORKSHOP on DEEP LEARNING FOR COMPUTER VISION

Insight Centre for Data Analytics - Dublin City University (DCU) – 2020

**CYBERSECURITY AND THE IOT**  
Coursera (University of Georgia) – 2020

### IMPACT OF ARTIFICIAL INTELLIGENCE ON DEFENCE AND SECURITY

Universidad Politécnica de Madrid (UPM) and the National Defence Studies Centre (CESEDEN) – 2019

**CONFLICT MEDIATION**  
Bienaventurada Virgen María, Las Irlandesas, Madrid, Spain

## SKILLS

### PROGRAMMING

Python, Matlab, C, Java, HTML

### TOOLS

Linux, Windows, LaTeX, Command Line.

### FRAMEWORKS

OpenCV, Numpy, Keras, PyTorch, Scikit, Tensorflow

### SOFT-SKILLS

Teamwork, Self-Organised Working, Teaching, Organisation

## REFERENCES

### Jesús BESCOS

Doctor | Universidad Autónoma de Madrid  
E-mail: [j.bescos@uam.es](mailto:j.bescos@uam.es)

## MEMBERSHIP

### STUDENT REPRESENTATIVE TEAM

Universidad Autónoma de Madrid – 2018/19.