



XAVIER BOU HERNANDEZ

PhD Candidate in Computer Vision
@ Centre Borelli, ENS Paris-Saclay

I am working on Change Detection (CD) in video and satellite imagery. I am interested in self-supervised learning and representation learning to understand image semantics and geometry.

PERSONAL

Address: 2 Rue des Fusillés
94270 Le Kremlin-Bicêtre, France.
Phone: +34 685 284 061
Email: xavibouhae@gmail.com
Github: <https://github.com/xavibou>
Google Scholar: [link](#)

SOFTWARE

Prog. Languages: Python, Java, C, C++
Frameworks: Numpy, Pytorch, JAX,
OpenCV, rasterio, Anaconda
Other: Jupyter Notebooks, Git, Linux,
AWS, SSH, vpn

LANGUAGES

Catalan



Fluent

Spanish



Fluent

English



Fluent

French



Advanced

WORKING EXPERIENCE

Oct 2022 -
Present

PHD CANDIDATE IN COMPUTER VISION

Centre Borelli, ENS Paris-Saclay

Orsay, France

PhD in applied mathematics at Centre Borelli (ex CMLA), École Normale Supérieure Paris-Saclay. My work explores change detection in video and satellite imagery. Funded by Agence de l'innovation de défense - Ministère des Armées.

Feb 2022 -
Oct 2022

RESEARCH INTERN

Research internship at the Centre Borelli (ex CMLA), École Normale Supérieure Paris-Saclay. I worked on change detection methods in video within the Image team.

Sept 2021 -
Feb 2022

STUDENT RESEARCHER

Mobile Perception Systems Lab at TU/e

Eindhoven, Netherlands

Research conducted at the Mobile Perception Systems (MPS) Lab at TU/e on Deep Learning methods for Domain Generalisation for Semantic Segmentation in Autonomous Driving.

April 2021 -
August 2021

DATA SCIENTIST

Kayros

Paris, France

Internship position within the Remote Sensing Team where I researched Deep Learning models for Thin Cloud Detection and Removal on Satellite Imagery.

July 2018 -
August 2020

SOFTWARE ENGINEER

Mobile Knowledge

Barcelona, Spain

Design, develop and manage Wireless Communications Software projects for engineering companies and organisations such as NXP Semiconductors or Globalcomm.

EDUCATION

Sept 2020 -
June 2022

MSc in Data Science and Artificial Intelligence

European Institute of Innovation and Technology - EIT Digital Master Program

Double-degree funded by the European Institute of Technology (EIT), including:

Université Paris-Saclay

Paris, France

Master of Science in Artificial Intelligence (120 ECTS)

Eindhoven University of Technology

Eindhoven, Netherlands

Master of Science in Data Science and Artificial Intelligence (120 ECTS)

EIT Digital Master School

Paris, France and Eindhoven, Netherlands

Minor in Entrepreneurship & Innovation

Sept 2015 -
June 2018

BSc in Electrical Engineering

Drexel University

Philadelphia, United States

Division 1 Athlete at Men's Soccer Team