



## MOHAMED CHELALI

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[mchelali.github.io](https://mchelali.github.io)

PH.D. IN COMPUTER SCIENCE

COMPUTER VISION

## WORK EXPERIENCE

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### AI Applied Scientist

Juin 2022 – Aujourd'hui

*Jellysmack*

- Design, prototyping and production of an engine with artificial intelligence to summarize a video.
- Internal consultant for image description in phrases, tags and other descriptors.

Python

HuggingFace

Amazon Web Services

Computer Vision

Natural Language Processing

### Ph.D. student researcher

October 2018 – Mai 2022

*Université de Paris*

- Title: image time series analysis involving spatial and temporal information

[mchelali.github.io/phd](https://mchelali.github.io/phd)

C/C++

Python

Gdal

QGIS

Scikit-learn

PyTorch

Supervised by Pr. Nicole Vincent and Dr. Camille Kurtz

- Research activity: satellite imagery and violence detection in videos
- Teaching: Computer Science

C/C++

JAVA

CAML

OpenCV

## EDUCATION

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### Ph.D. in computer science

*Université de Paris*

*Image time series analysis*

2018 – 2021

### Master in computer science

*Université Paris Descartes*

*Image and plurimedia*

2016 – 2018

### Master 1 in computer science

*B.B.Arreidj University*

*Network and multimedia*

2015 – 2016

### Bachelor in computer science

*B.B.Arreidj University*

*Image processing*

2012 – 2015

## LEISURES

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**Swimming** 7 years of practice

**Break dance** 5 years of practice

## SCIENTIFIC PUBLICATIONS

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### INTERNATIONAL JOURNALS

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Deep-STaR: Classification of image time series based on spatio-temporal representations. *International Journal of Computer Vision and Image Understanding (CVIU)*, 2020

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Influence of data representations and deep architectures in image time series classification. *International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)*, 2020

## FRENCH CONFERENCES

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Des pixels aux segments pour la classification de séries temporelles d'images via des réseaux de neurones convolutionnels. *Conférence Reconnaissance des Formes, Image, Apprentissage et Perception (RFIAP)*, 2020

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Classification de séries d'images via une représentation spatio-temporelle. *Atelier sur l'Apprentissage Profond dans le cadre de la Conférence Extraction et Gestion des Connaissances (APTA@EGC)*, 2020

## INTERNATIONAL CONFERENCES

**Chelali, M.**, Kurtz, C., Vincent, N., Violence detection from video under 2D spatio-temporal representations. *International Conference of Image Processing (ICIP)*, 2021

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Classification of spatially enriched pixel time series with convolutional neural networks. *International Conference on Pattern Recognition (ICPR)*, 2020

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., From pixels to Random Walk based segments for image time series deep classification. *International Conference on Pattern Recognition and Artificial Intelligence (ICPRAI)*, 2020

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Spatio-temporal stability analysis in Satellite Image Times Series. *International Conference on Pattern Recognition and Artificial Intelligence (ICPRAI)*, 2020

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Image time series classification based on a planar spatio-temporal data representation. *International Conference on Computer Vision Theory and Applications (VISAPP)*, 2020

**Chelali, M.**, Kurtz, C., Puissant, A., Vincent, N., Urban land cover analysis from satellite image time series based on temporal stability. *IEEE Joint Urban Remote Sensing Event (JURSE)*, 2019

## SKILLS

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**Languages** French (fluent), Arabic (fluent), English (professional proficiency)

**Programming languages** Python, C/C++, JavaScript, Java, Matlab, Bash

**Web development** Flask, FastAPI, Django, Angular 4/5, Bootstrap

**Libraries** PyTorch, TensorFlow, OpenCV, Gdal, Scikit-Learn, Scikit-Image

**Others :** Linux, Windows, Mac OS X, Gestion de versions (Git), Anaconda, Latex, InkScape, Outils Bureautiques