



AGUSTIN CARTAYA

Master Student in Medical Imaging

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agustincartaya

AgustinCartaya

STUDIES

Master's Degree in Medical Imaging and Applications

MAIA

2022 - 2024

uB-France / UdG-Spain / UNICAS-Italy

- Specialized in medical image analysis and CAD systems using advanced machine learning and deep learning algorithms

Bachelor's Degree in Computer Science

University of Burgundy

2019 - 2022

Dijon, France

Electronic Engineering (5 semesters)

UNEXPO

2017 - 2019

Guayana, Venezuela

EXPERIENCES

Master's Thesis - Brain structure prediction

Hjerneavbildning / fMRI-gruppa

02/2024 - 06/2024

NTNU, Trondheim Norway

- Predicting structural brain changes 9 years ahead in T1w MR images using Deformation Fields and GANs based techniques.

Internship - Brain tumor detection

ImViA Laboratory

Summer 2023

Dijon, France

- Detection of brain tumors using multi-spectral imaging from MRI and Dempster-Shafer theory.

Internship - Skin lesion imaging

FORTHEM alliance

Summer 2022

Dijon-France / Mainz-Germany

- Development of a system for managing multi-modal images of skin lesions. Enable the integration of AI for the detection of melanomas.

Research Engineer

DNUM - University of Burgundy

2021 - 2023

Dijon-France

- Facilitate information sessions for staff on the operation of electronic equipment and platforms dedicated to education and management.

AWARDS

- Scholarship Grant - Erasmus Mundus Joint Master.
- Winner of the melanoma classification problem MAIA CAD module.
- Poster Presenter, Brain Aging Conference 2024, Geiranger, Norway.

CHALLENGES AND PROJECTS

- Alzheimer's disease onset recognition by handwriting.
- Alzheimer's disease classification using MRIs and gene expression.
- Multi-modal brain MRI segmentation.
- Intra patient lung CT registration.
- Skin lesion classification (binary and multi-class).
- Soft Exudates detection and classification in retinal fundus images.

SKILLS

Programming

Python Java C++ MATLAB

TensorFlow / PyTorch Linux

Freesurfer OpenGL SQL

Soft skills

Autonomy Teamwork Adaptability

Problem-Solving Perseverance

LANGUAGES

English ●●●●●

Spanish ●●●●●

French ●●●●●

Italian ●●●●●

Student Jobs

2017 - 2023

- Waiter and Student advisor - CROUS Dijon, France
- Grape picker - Domaine Latour Giraud, Meursault, France
- Bartender - Stand Buy, France
- Baker - JJ Bakery, Guayana, Venezuela