ÉLOI NAVET

PhD Candidate in Artificial Intelligence Applied to Neuroscience

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EXPERIENCE

PhD Candidate in Computer Science

LaBRI - University of Bordeaux

October 2024 - Present

Bordeaux, France

PhD in artificial intelligence applied to the differential diagnosis of neurological diseases using structural MRI. Development of Transformer models (ViT, Swin) for classification and interpretabil-

Supervised by Pierrick Coupé and Rémi Giraud.

theses.fr/s396303

AI R&D Intern

Thales

March 2024 - August 2024

Toulouse. France

Development of an Al-based surrogate model for fast and accurate modeling of wildfire propagation.

Data Science R&D Intern

QuadrX

📋 June 2023 - February 2024

Bordeaux, France

Terrain roughness analysis for wind gust studies to identify suitable locations for solar installations. Designed an AI workflow using PyTorch and Google Earth Engine to address the problem.

University Tutor

Université Grenoble Alpes - DLST

September 2022 - January 2024

Grenoble, France

Weekly tutoring sessions in mathematics for several groups of around twenty first-year students.

Research Assistant

UGA - Laboratoire Jean Kuntzmann - IMAG (CNRS)

May 2022 - July 2022

Grenoble. France

Supervised generation of oriented textures. Analysis of texture orientation using mathematical tools (Wavelets, Fourier Transform, etc). Implemented a convolutional neural network (CNN) to characterize local texture orientation.

PROJECTS

TIPE - Facial Recognition Using Principal Component Analysis

As part of the engineering entrance examination (TIPE), developed a Python algorithm implementing the Principal Component Analysis (PCA) method for algorithmic linear algebra applications.

Development of a C Graphical Interface Library

Group project aimed at developing a C library for creating graphical user interfaces. Managed user interactions, window customization, and optimized rendering.

Reproduction of Scientific Results

Implementation and reproduction of results from several scientific papers in artificial intelligence and fluid dynamics. Those not developed during internships are listed here: [1] [2] [3] [4] [5]

STRENGTHS

Motivated Curious Autonomous Team-oriented Rigorous Python LaTeX Git

LANGUAGES

French **English** Spanish



EDUCATION

Engineering School Grenoble INP ENSIMAG - UGA

2021-2024

Grenoble, France

Master's in Applied Mathematics

UFR IM2AG - UGA

1 2022-2024

Grenoble, France

Master of Science **Aalto School of Science**

2023

Helsinki, Finland

Preparatory Classes (MPSI/MP)

Lycée Berthollet

1 2018-2021

Annecy, France

INTERESTS

Skiing

Running

Boxing

Aerospace

Physics and Astronomy

Mathematics

Medicine