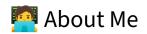
Youwan Mahé

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I am a PhD student within the Empenn and MALT research teams, funded by Siemens Healthineers. My PhD research focuses on anomaly detection and segmentation for the characterization of poststroke recovery.

I am naturally curious with a passion for exploring electronics, meteorology, chemistry, physics, and AI.



Education

PhD in Computer Sciences

Nov 2024 - present

Anomaly detection and segmentation for the characterization of post-stroke recovery Université de Rennes, Rennes (FR)

Master's degree in Nanomedecine & Structural Biology

Sept 2022 - June 2024

Université Grenoble Alpes, Grenoble (FR)

With high honours

Master's degree in Biomedical Engineering

Sept 2022 - June 2024

Institut National Polytechnique de Grenoble, Grenoble (FR)

With highest honours

Bachelor of Engineering

Sept 2021 - June 2022

Institut National Polytechnique de Grenoble, Grenoble (FR)

Bachelor of Technology in Instrumentation and Measurement

Sept 2019 - June 2021

Université de Rennes 1, Lannion (FR)

With highest honours



💼 Research Experience

PhD in computer sciences

Nov 2024 - Present

Supervisors: Dr. Elise Bannier, Pr. Elisa Fromont, Pr. Francesca Galassi, Dr. Stéphanie Leplaideur

Title: Anomaly detection and segmentation for the characterization of post-stroke recovery

Tuniv Rennes, Inria, CNRS, Inserm, IRISA UMR 6074, Empenn, Rennes, France

Master Internship (2nd year)

Feb - June 2024

Supervisors: Dr. Burhan Rashid Hussein, Dr. Cedric Meurée, Pr. Francesca Galassi

Title: Improving multiple sclerosis lesions segmentation in 3D spinal cord magnetic resonance images with recent advancements in deep learning

Tuniv Rennes, Inria, CNRS, Inserm, IRISA UMR 6074, Empenn, Rennes, France

Master Internship (1st year)

Feb - June 2024

Supervisor: Pr. Marina Eckermann

Title: Multi-modal X-ray data analysis of brain tissue

F European Synchrotron Radiation Facility (ESRF), Grenoble, France



Preprints available on HAL

- 1. **Mahé, Youwan**, Bannier, E., Leplaideur, S., Fromont, E. & Galassi, F. *Unsupervised Generative Models for Post-Stroke Anomaly Detection* in preparation for submission to *ISBI 2026*.
- 2. **Mahé, Youwan**, Bannier, E., Leplaideur, S., Fromont, E. & Galassi, F. *Unsupervised Deep Generative Models for Anomaly Detection in Neuroimaging: A Systematic Scoping Review* Manuscript in preparation for submission to *Imaging Neuroscience*.
- 3. **Mahé, Youwan**, Leplaideur, S., Fromont, E., Bannier, E. & Galassi, F. *Détection et segmentation des anomalies cérébrales post-AVC* in *IABM 2025 Colloque Français d'Intelligence Artificielle en Imagerie Biomédicale* (Nice, France, Mar. 2025), 1–2. https://hal.science/hal-04910273.



Teachings

Year	University	Public	Course	N. of hours	Туре
2025	ESIR Université de Rennes	Graduate students in Computer Science – Information Systems option	Machine Learning	24	Lab Sessions

Scientific outreach

- 1 scientifique, 1 classe: chiche!: 1-hour talk for high school students on the challenges of AI technologies at Lycée La Mennais in Ploërmel.