

Youwan Mahé

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About Me

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 post-stroke recovery.

In addition to my research, I am an aircraft mechanic (Part-66L) and a glider pilot. 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

📍 Univ 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

📍 Univ 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

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



Publications

Soon ...



Teachings

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



Scientific outreach

- **Semaine du cerveau (Brain week)** 🧠 : Organization and preparation of a quizz about neuroimaging research (the jobs, image treatment, neuroimaging methods, findings about the brain, etc.). Presentation during the [Semaine du cerveau](#) 2025 at Café des Champs Libres, Rennes.
- **1 scientifique, 1 classe : chiche !** : 1-hour invited talk for high school students on the challenges of AI technologies at Lycée La Mennais, Ploërmel (56).