

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.

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 Nanomedicine & 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

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* working paper or preprint. Oct. 2025. <https://inria.hal.science/hal-05304920>.
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	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 processing, 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 talk for high school students on the challenges of AI technologies at Lycée La Mennais in Ploërmel.
- **Fête de la science 2025 (Science Festival)** : Presentation of my research work and the challenges of AI technologies at the Village des Sciences, Ploufragan.