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Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Nadjia Kachenoura
Supervisor page	https://www.researchgate.net/profile/Nadjia-Kachenoura
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Biomedical Imaging Lab https://www.lib.upmc.fr/about-lib/?lang=en
Research Team	Cardiovascular Imaging (ICV) https://www.lib.upmc.fr/team-3-cardiovascular-imaging/?lang=en

Project Title

A fully automated artificial intelligence (AI) pipeline to decipher left atrial (LA) cardiomyopathy from multiparametric MRI images: improved prediction of stroke risk in the framework of atrial fibrillation

Project Description

Atrial fibrillation (AF) is associated with an increased risk of thrombi development and stroke. Accurate evaluation of LA cardiomyopathy is a cornerstone of AF management. The applicant aim is: 1) to quantify LA cardiomyopathy multifaceted manifestations (fibrosis & fat infiltration, LA flow & wall motion) from the MRI images using AI and CFD approaches and to assess their predictive value. Hosting team has several ongoing cutting-edge AF protocols to ensure original data availability.

Keywords

artificial intelligence - AI, imaging of atrial fibrillation, stroke prediction

Description of the Host Research Lab

The Biomedical Imaging Lab (LIB – Laboratoire d’Imagerie Biomédicale) specializes in fundamental research and applications of biomedical imaging methods for morphologic, functional and molecular exploration of small animals and humans. The main investigation foci are among the twenty-first century public health priorities: bone, cancer, cardiovascular and neurological diseases. We develop new diagnosis and treatment methodologies in our main field of investigation, including bright light microscopy, ultrasound, MRI, CT and SPECT-PET.

To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr