

Josiane YANKAM NJIWA



After studying electrical engineering, Dr. Josiane YANKAM NJIWA took interest in medical imaging and obtained her PhD in image processing at the research centre CREATIS-LRMN at INSA of Lyon, under the supervision of Dr. Yuemin ZHU (CNRS Research Director). During this period she developed reconstruction methods that reduce the acquisition time of static as well as dynamic magnetic resonance images (MRI). Josiane obtained her PhD in October 2007.

From December 2007 to January 2011, she was a post-doctoral fellow at the Institute of Biomedical Engineering of the Swiss Federal Institute of Technology Zurich (ETH Zurich) under the supervision of Dr. Markus RUDIN. During this period, Josiane specialized in biomedical engineering with a focus on small animal imaging. She developed methods for processing spinal cord and brain images to enhance their analysis and interpretation (fusion, registration, segmentation, and related techniques). She proposed and implemented image reconstruction algorithms to accelerate the acquisition of brain images.

Josiane's great interest in functional imaging and neuroscience led her to join the research team of the Neurodis Chair of Excellence in Functional Neuroimaging as a post-doctoral fellow. Her research here is focused on the use of PET with the radiotracer [^{11}C]PK11195 to detect and quantify inflammation of the brain in patients with autoimmune disease and/or epilepsy.