



Postdoctoral Researcher Position, Multimodal Brain Imaging of Neurodegeneration

We are looking for a highly motivated postdoctoral researcher with a solid background in brain imaging and neurodegeneration to join the **Neuroinformatics for Personalized Medicine lab (NeuroPM)** at the Montreal Neurological Institute and Hospital ([The Neuro](#))/McGill University (Montreal, Canada) and the [Kalra Lab](#) for Neuroimaging and ALS Research at the University of Alberta (Edmonton, Canada).

Experience in the computational modeling of brain-based datasets will be an asset. The project duration is for one year and potentially extendable for a second year. The work includes the analysis of direct multifactorial brain interactions and intra-brain network spreading of aberrant effects in Amyotrophic Lateral Sclerosis (ALS). The postdoc will be under the co-supervision of Professors Yasser Iturria-Medina and Sanjay Kalra, and will collaborate with several associated research groups.

The NeuroPM lab is affiliated with the Healthy Brain for Healthy Lives ([HBHL](#)) initiative, the [Ludmer Center](#), and the McConnell Brain Imaging Center ([BIC](#)) and encompasses computationally intensive and interdisciplinary research on the brain. NeuroPM is leading mathematical modelling approaches with proven application to personalize medicine and clinical drug trials for multiple neurodegenerative disorders (Alzheimer's, dementia, Parkinson's, etc.). Montreal is also the AI hub for Canada, and the project offers multiple opportunities to network towards future research positions. The Neuro is an internationally renowned institution, characterized by the integration of research and patient care and is leading the rollout of the Canadian Open Neuroscience Platform.

The Kalra Lab has the mission of improving our understanding of ALS biology through brain imaging and translational research. It is the central coordinating site for the Canadian ALS Neuroimaging Consortium (CALSNIC), a multicenter research platform for the collection of harmonized imaging and behavioural data.

Interested candidates should send their CV, a cover letter stating research interests, and two reference letters. The competition will remain open until the position is filled.

Job Type: Full-time

Salary: ~45,000.00 \$/year

Contact: **Yasser Iturria Medina, Dr** < yasser.iturriamedina@mcgill.ca >

- NeuroPM lab (<http://www.neuropm-lab.com/>)
- Kalra Lab (<http://www.ualberta.ca/ALS/research/>)