

# Post-Doctoral Fellowship in Neuroimaging Genetics

## CHU Sainte-Justine Research Center

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Principal Investigators	Sébastien Jacquemont, Pierre Bellec, Mallar Chakravarty, Aurélie Labbe, Jacques Michaud
Project duration	2 years
Start date	2018

### Research laboratory presentation

#### Research project description

The groups of Profs Sébastien Jacquemont, Pierre Bellec, Mallar Chakravarty, Aurélie Labbe and Jacques Michaud are working on a project aiming at characterizing the effects of structural genomic variation on brain structure, cognition, and behavior. This is a multidisciplinary project using large ( $n > 20000$ ) neuroimaging, cognitive and genomic datasets assembled from different sources.

#### Required training and profile

The ideal candidate should be highly motivated and holds a Ph.D. in genetics, computational neuroscience, computational statistics / machine learning or equivalent. They should be proficient in coding using either R, Python, Matlab, etc....

#### Conditions of internship

Full time, 2 years, renewable.

This project offers a stimulating, young and international environment within the IVADO initiative. The work will be performed in several institutions: Sainte Justine Research Center, the Douglas research center, and the CRIUGM. The successful candidate will acquire cross-disciplinary expertise due to the diverse background of the investigators. Depending on the evolving requirements of the project the postdoctoral fellow will spend time in 2 to 3 laboratories.

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She or he will attend the IVADO summer schools on machine learning as well as international conferences to present results.



#### Submit your application

Interested candidates must submit the following documentation

- ✓ Curriculum vitae
- ✓ Lettre de motivation
- ✓ Références

to Prof Sébastien Jacquemont at [sebastien.jacquemont@umontreal](mailto:sebastien.jacquemont@umontreal).

Prof Sébastien Jacquemont  
Canada research chair  
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<http://www.minds-genes.org/>

<http://cobralab.ca/about/>

[http://simexp-lab.org/brainwiki/doku.php?id=pierrebellec#pierre\\_bellec\\_s\\_homepage](http://simexp-lab.org/brainwiki/doku.php?id=pierrebellec#pierre_bellec_s_homepage)

#### How is it like to study or make a fellowship at the CHU Sainte-Justine Research Center?

Pursue your [graduate or postdoctoral studies](#) at the CHU Sainte-Justine Research Center, and be one of the 450 students, fellows and interns who are helping to fast track the development of knowledge in the field of mother, child and adolescent health. Under the supervision of prominent scientists, especially in leukemia, rare pediatric diseases, genetics, perinatology, obesity, neuropsychology and cognition, scoliosis and rehabilitation, you will have the opportunity to work with multidisciplinary scientific teams and collaborators from all over the world.

#### About the CHU Sainte-Justine Research Center

CHU Sainte-Justine Research Center is a leading mother-child research institution affiliated with Université de Montréal. It brings together more than 200 research investigators, including over 90 clinician-scientists, as well as 450 graduate and postgraduate students focused on finding innovative prevention means, faster and less invasive treatments, as well as personalized approaches to medicine. The Center is part of CHU Sainte-Justine, which is the largest mother-child center in Canada and second most important pediatric center in North America. More on [research.chusj.org](http://research.chusj.org)

