



Project title	Development of functional language brain networks for from birth to three years of age (the Elan Study)		
Study level(s)	<input type="checkbox"/> MSc	<input type="checkbox"/> PhD	<input checked="" type="checkbox"/> Postdoctorate
Principal investigator(s)	Anne Gallagher, Ph.D.		
Project duration	1 year, renewable		
Start date	September 1st, 2020 (flexible)		

Date of posting: 2020-07-13

Research laboratory presentation

Our research team conducts studies to better understand cognitive and language development in neurotypical children and children presenting various clinical problems (epilepsy, congenital heart disease, premature birth). The projects are led by Dr. Anne Gallagher, Canada Research Chair in Child Neuropsychology and Brain Imaging.

For more information : www.lionlab.umontreal.ca

Research project description

The Elan study aims to characterize the development of language networks in healthy infants from birth to 36 months of age. Each visit (planned at birth, 4, 8, 12, 18, 24, and 36 months) includes a neurodevelopmental assessment (4 to 36 months) and a functional Near Infrared Spectroscopy recording (fNIRS, at all ages). The postdoctoral fellow will be actively involved in the recruitment, neurodevelopmental assessments, fNIRS data acquisition and processing as well as in the writing of scientific articles and communications.

The postdoctoral fellow will be actively involved in:

- data acquisition coordination;
- behavioral and neuroimaging data acquisition and analysis;
- preparing files for legal and ethical compliance;
- undergraduate and graduate students' supervision;
- knowledge transfer and dissemination;
- writing of scientific manuscripts.

Required training and profile

- Graduate (PhD) training in biomedical sciences, psychology, cognitive neuroscience, or related field;
- Experience in neurodevelopmental assessment (a major asset)
- Experience in pediatric neuroimaging (a major asset)
- Strong scientific writing skills in English;
- Excellent knowledge of good clinical practices;
- Strong proficiency in French and / or English, spoken and written (fluency in both languages is a major asset).



Desired skills:

- Strong leadership;
- Ability to work under pressure and meet deadlines;
- Strong communication and interpersonal skills;
- Sense of responsibility, thoroughness and autonomy;
- Proactivity and ability to work with minimal supervision;
- Strong organizational, time and priority management skills.

Conditions

The postdoctoral start date is flexible, but preferably September 1, 2020.

The Elan study is funded by the Natural Sciences and Engineering Research Council of Canada (NSERC) for 5 years. The appointment will be renewable on a yearly basis, contingent on satisfactory performance, availability of research funds and the project's advancement.

The stipend will be determined based experience and qualification levels. The stipend will come from the researcher's research fund or an external nominative scholarship if applicable. The candidate will be encouraged to apply for external fellowships.

The candidate must register at the Université de Montréal as a postdoctoral fellow and must meet the eligibility requirements of the program. Postdoctoral fellows receives a stipend at the CHU Sainte-Justine, and not a salary. They are therefore not eligible to receive marginal benefits, employment insurance or retirement pension benefits. Taxes will be deducted at the source when the stipend is paid from the director's research funds.

Submit your application

Candidates must send the required documents before **Septembre 1st, 2020** to **Anne Gallagher** at anne.gallagher@umontreal.ca.

Please provide:

- ✓ *Curriculum vitae*
- ✓ Most recent transcripts
- ✓ Cover letter
- ✓ References (2)

Anne Gallagher, Ph.D., neuropsychologist
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University of Montreal
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CHU Sainte-Justine Research Center
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Equity, diversity and inclusion

The masculine gender is used without discrimination and for the sole purpose to facilitate reading. The CHU Sainte-Justine subscribes to the principle of equal access to opportunities and invites women, members of visible and ethnic minorities, persons with disabilities and Indigenous people to apply. We would appreciate it if you could inform us of any disabilities that would require technical and physical accommodation adapted to your situation during the selection process. Please be assured that we will treat this information as confidential.

Studies 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 500 students, fellows and interns involved in accelerating the development of knowledge in the field of maternal, child and adolescent health, whether in basic or clinical research. 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 500 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 the second most important pediatric center in North America. More on research.chusj.org

