

Call for Applications: Postdoctoral Fellowship-2021/2022

Call for three postdoctoral positions

(human cognitive neuroscience and translational neuroscience)

LATIN AMERICAN BRAIN HEALTH INSTITUTE (BrainLat), University Adolfo Ibáñez

Santiago de Chile

Background: The overarching mission of BrainLat is to empower a new generation of health leaders to break down disciplinary boundaries and forge innovative approaches for promoting **brain health in their communities and reducing the global impact of dementia**. LABHI brings together leading national and international institutions in brain science, including the UAI (School of Psychology, Faculty of Engineering and Science, School of Government), the Geroscience Center (GERO), the Memory and Neuropsychiatry Clinic of the University of Chile (CMYN), and the Global Brain Health Institute (GBHI) at the University of California San Francisco (UCSF) and Trinity College Dublin (TCD). Supported by this network, the institute aims to conduct world-class interdisciplinary and translational research with real-world implications, train new researchers, and disseminate evidence to broad audiences.

Position objectives: Universidad Adolfo Ibanez (UAI), in association with the Global Brain Health Institute (GBHI), invites applicants for postdoctoral positions beginning in March 2022, to be part of the new Latin American Brain Health Institute (BrainLat). Positions of a Postdoctoral Scientists have been created to carry out research on the contribution of the following research areas including:

- Studies on Biomarkers in neurodegenerative diseases
- Molecular, cellular and behavioral studies in neurodegenerative diseases using animal models.
- Neuroimaging and neurocognition of aging and neurodegenerative diseases
- Computational approaches and statistical machine learning

Post holder is expected to be creative and motivated and able to work independently, but also to interact well within the team. The post holder will be responsible for designing, performing, analyzing and interpreting experiments, as well as writing and publishing the work under supervision.

Position 1: Human Cognitive Neuroscience (supervised by Agustin Ibanez)

Eligibility Criteria: A PhD with expertise in EEG (ERPs, oscillations, connectivity, or decoding), and/or neuroimaging (MRI/fMRI/DTI and related methods: VBM, SBM, or connectivity), and/or machine learning (random forest, SVM, XGBoost, others). Knowledge in python, Matlab, and programming skills will be positively considered. Background in cognitive neuroscience will also be positively considered.

Position 2: Translational neuroscience (supervised by Claudia Duran-Aniotz)

Eligibility Criteria: A PhD in Biomedicine, Neuroscience, Biochemistry, Cell biology and/or related science. Knowledge in molecular biology and biochemistry techniques (Western blot, qPCR), genetic/epigenetic analysis (sequencing NGS, GWAS), exosomes, miRNA research, computational approaches/statistical machine learning and/or animal management will be positively considered.

Benefits: Full-time contract (44 hours) for one year (potentially extended to 2 years). The gross monthly salary range is \$1.670.000 to \$1.850.000 CLP. Access to facilities and equipment for the development of research, as well as support mechanisms. Full time dedication to the development of research, with no teaching obligations. Institutional support and sponsorship when applying for external funding.

The application process will be open until December 20th, 2021 to start in March 2022. Applicants should send a CV, a letter of intention, and two letters of reference. Questions and all application materials should be e-mailed to Dr. Agustín Ibáñez agustin.ibanez@gbhi.org and Dr. Claudia Duran-Aniotz claudia.duran@uai.cl