

# Call for Applications (2021): Postdoctoral Fellowship

## Two postdoctoral positions

(Human Cognitive Neuroscience and Translational Neuroscience)

LATIN AMERICAN BRAIN HEALTH INSTITUTE (BrainLat)

University Adolfo Ibañez

Santiago de Chile

**Background:** The overarching mission of BrainLat will be 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**. BrainLat brings together leading national and international institutions in brain science, including the UAI (School of Psychology, Faculty of Engineering and Science, School of Government and School of Business), the Geroscience Center (GERO), the Memory and Neuropsychiatry Clinic of the University of Chile (CMYN). BrainLat aims to be affiliated with the Global Brain Health Institute (GBHI) at the University of California San Francisco (UCSF). Supported by this network, the institute will conduct world-class interdisciplinary and translational research with real-world implications, train new researchers, and disseminate evidence to broad audiences.

**Position objectives:** BrainLat invites applicants for postdoctoral positions beginning April, 2021, to be part of the new Institute. Positions of a Postdoctoral Scientists have been created to carry out research on the contribution of the following research areas including:

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

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

### **Posicion 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, 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, sequencing NGS), 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), with a gross monthly salary between \$1,300,000 and 1,800,000 CLP (depending on profile). Access to facilities, equipment and data already collected 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 opened until March 30th, 2020 to start on April/5/2021. 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 or Dr. Claudia Duran-Aniotz at [brainlat@uai.cl](mailto:brainlat@uai.cl).