

## POSTDOCTORAL POSITION IN COMPUTATIONAL PSYCHIATRY

### Lab of Dr. Bo Cao

The Department of Psychiatry at the University of Alberta in Edmonton is recruiting a postdoctoral fellow in computational psychiatry. The successful applicant will participate in research that applies machine learning to multimodal datasets for mental disorders. Current and potential projects include diagnosis and treatment outcome predictions with machine learning including deep learning, clinical and biological marker identification and brain structural and functional mechanisms of mental disorders. The successful applicant will have the opportunity of supervised access to several public and government/institution/company owned datasets, including health records, clinical trials, brain imaging, and genetic datasets of up to millions of cases from Alberta and the rest of Canada, USA, China and India. In this context, there are excellent opportunities for shared mentorship and collaboration with several PIs in psychiatry and computer science, including the Alberta machine intelligence institute (Amii). The successful applicant will play a co-leadership role for several research projects in computational psychiatry, co-develop and participate in preparation of research grant proposals, assist in the supervision and training of other personnel including technologists, graduate students, other lab members and scientific collaborators. The ideal applicant will exhibit a high level of motivation to pursue data-driven research in mental disorders, to publish in excellent peer-reviewed journals, and to seek prestigious fellowships and research awards, as appropriate.

The stipend for this position will be commensurate with the experience of the successful candidate. This position is available immediately and funding is sufficient to support the initial position for at least two years.

#### Applicants must:

- Possess a doctoral degree (MD and/or PhD in psychiatry, psychology, neuroscience, computer science or mathematics) and relevant research experience in this area.
- Have strong coding skills in Python, Matlab, R or C and/or experience in neuroimaging, clinical, genetic or health record data processing is preferred.
- A strong track record of refereed journal publications is desired.
- Have experience working in a team setting and exhibit excellent communication skills (oral and written).
- Be fluent in English. For applicants who did not complete training in an accredited English language institution, IELTS scores will normally be required as evidence of proficiency.

#### To Apply:

Candidates should submit a cover letter, a statement of career goals, research interests and vision for research track if applicable, including a description of research interests; a complete CV (Canadian Common CV is acceptable) including a summary of graduate thesis research and post-doctoral research (if applicable), transcripts, and the names and contact information (address, phone number and email address of three referees to:

Dr. Bo Cao

Department of Psychiatry, University of Alberta, Edmonton, Canada T6G 2E1

Email: [bcao2@ualberta.ca](mailto:bcao2@ualberta.ca)

#### Closing date:

Position open until filled.

**We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.**

*The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.*