

Two PhD openings in Psychiatry (Computational Psychiatry)

The PhD program in the Department of Psychiatry at the University of Alberta has two openings for PhD students to conduct research in computational psychiatry, applying machine learning to multimodal datasets for mental disorders. Current and potential projects include diagnosis and treatment outcome predictions with machine learning including deep learning, identification of clinical, cognitive and biological markers, brain structural and functional mechanisms of mental disorders and brain and cognitive aging in populations with mental disorders. The successful candidate will possess a relevant undergraduate degree in computer science, mathematics neuroscience, physics, psychology and statistics. Some experience of coding with Python, Matlab, R or C, or experience in neuroimaging, clinical, genetic or health record data processing is required. The successful applicant will be an effective team-player with excellent communication (oral and writing) skills.

In this context, students have supervised access to several government/institution/company owned and public 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 research group students have the opportunity to be co-supervised and collaborate with several PIs in psychiatry and computer science. The successful applicant will join several research projects in computational psychiatry, gain mentorship in writing research grant proposals and preparation of grant reports for funding agencies and preparation of articles for publication in peer reviewed journals.

The minimum starting stipend for this position is \$25,000 per annum and will be commensurate with experience of the successful applicant.

Candidates should submit a cover letter including research interests, complete CV including a summary of previous research experiences, transcripts, and the names and contact information [address, phone number and email address] for three referees to:

Dr. Bo Cao, Dept. of Psychiatry
University of Alberta Edmonton, Alberta, Canada T6G 2E1
Email: bcao2@ualberta.ca

All qualified candidates are encouraged to apply. We thank all applicants for their time and effort but only those 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 persons; 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.