



SEARCH

Postdoctoral Research Fellow in Psychometric and Statistical Theories of Measurement

Measurement, Evaluation, & Research
Methodology (MERM) Program

Department of Educational and Counselling
Psychology and Special Education (ECPS)
at the University of British Columbia,
Vancouver, Canada

Deadline to apply: Friday, April 1, 2022, at
4:30 PM PST



The Measurement, Evaluation, and Research Methodology Program, in the Department of ECPS within UBC's Faculty of Education, one of the world's leading faculties of its kind, invites applications for the position of **Postdoctoral Research Fellow** to work under the supervision of **Professor Bruno D. Zumbo**.

We are pleased to announce that we are now accepting applications for a Postdoctoral Research Fellow. We seek applicants who wish to contribute to and lead innovative and impactful research projects aligned with our mission to advance the psychometric and statistical theories of measurement.

Duration: The initial one-year full-time appointment will begin as early as May 1, 2022, or a mutually agreed upon later date. The appointment may be extended for a second year contingent upon research performance and available funding.

Location: Department of Educational and Counseling Psychology and Special Education (ECPS), University of British Columbia, Vancouver, B.C.

Salary: \$55,000 (CAD) per annum plus eligible benefits; in addition, there is an allowance of \$2,000 per year to attend research conferences

Deadline to Apply: Friday, April 1, 2022, at 4:30 PM (PST)

The Postdoctoral Research Fellowship supports the most promising researchers at a pivotal time in their careers to continue to develop leading-edge scientific and research skills for academic institutions, industry, and government. The postdoctoral program aims to provide research support to develop the next generation of researchers and leaders across society, within academia, and across the public, private and not-for-profit sectors.

The successful candidate will work under the supervision of Dr. Bruno D. Zumbo, Professor and Distinguished University Scholar, and Tier 1 Canada Research Chair in Psychometrics and Measurement.

Applicants should have expertise in and demonstrated research interest in the following areas:

- Statistics and Data Science: Causal inference, computational statistics and latent variable and hierarchical modelling, Bayesian statistics.

- Assessment, Measurement and Psychometrics: Assessment design, validity, fairness and psychometric modelling.

Dr. Zumbo has a long-standing role in developing psychometric and statistical methodology for testing and assessment, such as invariance in item response theory (IRT), differential item functioning (DIF), validity theory, and the statistical methods widely used in large-scale testing, assessment, and survey programs.

Current research in this area focuses on theoretically based development or enhancement of statistical and psychometric methods for analyzing item and test data, using mathematical theory to support these statistical and psychometric methods, and applying existing methods to novel problems. There is a particular interest in developing methods for causal inference and Bayesian methods related to measurement invariance and DIF.

Qualifications:

Candidates should hold, or expect to hold by the time of appointment, a doctoral degree for no more than two years since being awarded the doctoral degree in psychometrics, educational measurement, statistics, or a related discipline by the time of appointment.

The candidate will demonstrate strong research knowledge, skills and attitudes; a demonstrated research interest in Statistics and Data Science and Assessment, Measurement and Psychometrics as described above. They should also demonstrate an understanding of Dr. Zumbo's research program.

Graduate training in the mathematical sciences would be considered an asset.

Application Details:

Applications should be addressed to Professor Bruno Zumbo, Distinguished University Scholar, Dept. of ECPS, UBC, and sent electronically at PsychometricPostDocUBC@gmail.com

Applications must be provided in the format of one **bookmarked PDF file** with the following four bookmark sections.

1. A letter of application describing a. the applicant's research interests, what skills and knowledge they bring to the postdoctoral fellowship, and what contributions they believe they can make to a project in Statistics and Data Science and Assessment, Measurement and Psychometrics, as described above, and b. a brief description (maximum 500 words) of a project they would like to conduct during their postdoctoral fellowship that reflects their shared interest with Professor Zumbo;
2. Curriculum vitae;
3. Two samples of relevant publications; and

4. Names, contact information, and email addresses for three referees who can speak to the applicant's research experience and skills. Letters of reference will only be requested from short-listed candidates.

Incomplete applications or applications not provided in the format of one bookmarked PDF file with the four bookmark sections will not be considered.

Please address informal inquiries about this postdoctoral fellowship to Professor Bruno Zumbo at bruno.zumbo@ubc.ca

Successful candidates should be prepared to start as soon as **May 1, 2022**, but a later start date is negotiable.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the British Columbia Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person. All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority. All applicants will be required to complete a confidential equity survey.

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