University of Victoria

Division of Continuing Studies | Population Health Data Analysis Program
PO Box 1700 STN CSC Victoria British Columbia V8W 2Y2 Canada
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Job posting

Position: Instructor, Longitudinal Analysis and Multi-level Modelling of Population Health Data course

Posting Date: November 9, 2023

Closing Date: Posting will remain open until the pool is filled

Format: Online

Pay Rate: $6250 plus 4% vacation pay

Continuing education has been an integral part of the University of Victoria since its inception in 1963. Today, the Division of Continuing Studies (DCS) provides adult and continuing education programming in co-operation with UVic faculties and community partners. We offer a comprehensive portfolio of programs in a range of academic disciplines, using diploma, certificate, degree and other programming models to serve adult, part-time, international and geographically dispersed students.

Position summary:

The Division of Continuing Studies is interested in developing long-term relationships with superior instructors who have high professional standards, excellent communication skills, enthusiasm and a commitment to creating learning experiences immersed in adult education principles.

We are seeking a professional who desires the opportunity to share their knowledge and experience in the field of Population Health Data Analysis. The successful candidate will be familiar with epidemiological study design and analysis methods. The ideal candidate will have a Ph.D. in the field of epidemiology or Population and Public Health with related research experience in geospatial analysis. Experience applying spatial statistics to epidemiological studies and proficiency in SAS and Mplus programming and use of administrative health data will be considered an asset.

We are especially interested in candidates who can demonstrate strong skills in the application of longitudinal analysis and multi-level modelling techniques in health research, applied use of administrative data, proficiency in SAS and Mplus programming, and a strong commitment to excellence in teaching and team work

Qualifications:

Applicants must have:

- A minimum of a Master's Degree in Epidemiology, Population or Public Health, or a Quantitative Social Science discipline research and/or work experience in the fields of longitudinal data analysis and population and/or public health.
- Technical knowledge and experience using SAS and Mplus.
- Research and/or work experience in the field of epidemiology and Population and Public Health.
- Excellent interpersonal, communication, and facilitation skills.
- Previous teaching experience (designing content for a course, training or presentation) is preferred.
- Teaching experience; knowledge in distance education considered an asset.

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Longitudinal Analysis and Multi-level Modelling of Population Health Data course description**:**

This course will provide you with an introduction to—and hands-on experience specifying—multi-level modeling and longitudinal analysis. You will gain an understanding of different types of approaches including:

- time varying and invariant predictors
- multivariate and multi-population models with different outcomes
- missing data, errors in measurement and measurement misclassification
- This course is designed to serve the needs of researchers who will analyze and model longitudinal data in population health research.

Learning objectives

- Define the methodological features of longitudinal data analysis.
- Describe fundamental concepts and issues in multi-level modeling.
- Identify different analytical approaches to longitudinal data analysis and specify their strengths and limitations.
- Use Mplus and SAS statistical modeling program to perform longitudinal data analyses in population health research.
- Develop and practice longitudinal model specification, estimation, evaluation, and modification skills.
- Interpret and evaluate findings in longitudinal population health research.

For further information about the **Professional Specialization Certificate in Population Health Data Analysis**, please visit continuingstudies.uvic.ca/phda

The PHDA fully online, non-credit courses are offered as a partnership between Population Data BC, the University of Victoria, Division of Continuing Studies and the Department of Geography.

How to apply:

Please submit a cover letter and current resume (in pdf format) to:

Ann Greenwood, Program Coordinator

Division of Continuing Studies University of Victoria

phdacoord@uvic.ca

Equity statement:

The University of Victoria is an equity employer and encourages applications from women, persons with disabilities, members of visible minorities, Aboriginal Peoples, people of all sexual orientations and genders, and others who may contribute to the further diversification of the University. All qualified candidates are encouraged to apply; however, in accordance with Canadian Immigration requirements, Canadians and permanent residents will be given priority.

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