**CANSSI Saskatchewan**

**Health Science Collaborating Centre**

**Winter 2022 Webinar Series**

**Wednesday, March 23**

**4:30 – 5:30 pm Central time**

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University of Calgary

Analysis of probability sample and non-probability sample subject to misclassification

**ABSTRACT**

Though probability samples are representative of the population of interest, not all variables needed for analysis are measured. While non-probability samples contain complete information on variables of interest, they are not representative of population due to biased sampling. In addition, categorical variables in non-probability samples may be subjected to misclassification. We propose a two-stage estimation process to integrate a probability sample with missing response and a non-probability sample with misclassified response in the absence of validation data in a latent-variable framework. The performance of the proposed method and its advantages over the naïve methods are demonstrated in simulation studies.

***Registration link:***

<https://usask-ca.zoom.us/meeting/register/tJwud-GhpzIpEtSxziGB3ZY7Fz4EHv4tI31t>

*Everyone is welcome!*