**CANSSI Saskatchewan**

**Health Science Collaborating Centre**

**Winter 2022 Webinar Series**

**Tuesday, April 5**

**10 – 11 am Central time**

Dr. Jerry Lawless

Distinguished Professor Emeritus

University of Waterloo

**Bias in Statistics: What Is It, How Does It Arise,**

**and How Can We Avoid it?**

**ABSTRACT**

The term bias has numerous meanings in science. The common statistical definition refers to the tendency of an estimation procedure to over- or under-estimate a target parameter in some population. This concept and related versions that address hypothesis testing and prediction are relevant in many settings. I will describe some of the ways that bias of this type arises in areas such as health research, economics and social science, and discuss ways to avoid or reduce bias through study design, modelling and enhanced data collection. I will briefly consider related issues associated with replicability, big data, data science and AI algorithms.

*Registration link:*

<https://usask-ca.zoom.us/meeting/register/tJcvcO2rpjMtEtA9EX0Ih_BpON-NdOz9WeDN>

*Everyone is welcome!*