

# CS Seminar - Dr. Ying Zhang

February 26, 2016

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## SEMINAR PRESENTATION

Friday, February 26, 2016

2:30 PM

Carnegie Hall 113

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Test for Trends in Blocked Time Series Data: Harvesting Maple Syrup in Nova Scotia

Dr. Ying Zhang

### Abstract

Motivated by an investigation on the effects of local environmental conditions on yield in maple syrup production in a Nova Scotia farm, we generalized the nonparametric seasonal Mann-Kendall test procedure to test for trends in blocked and panel time series data. To further answer the question of when the change happens, we proposed a new procedure of testing for the change point in blocked time series data. In this talk, I will review some well-known nonparametric statistics used for testing for trend/change point in univariate time series data and then introduce our generalizations to the blocked data. I will report key findings from our investigation with both parametric and nonparametric methods.

This is a joint work with Elizabeth Abebe supported by an NSERC Engaged Grant and NS 2015 SCEI program.

### About the Presenter

Dr. Ying Zhang is a Professor in the Department of Mathematics & Statistics and has been the Director of the Statistical Consulting Centre since coming to Acadia University in 2004. Prior to this, Ying was the

manager of the Statistical Laboratory at Western University (2001-2004), and has been an active statistical consultant since 1999. She has worked with a variety of organizations. Ying has extensive experience with applied statistical methodology research and consulting, specializing in time series intervention analysis, nonparametric statistics, experiment design, and survey sampling. Ying is a researcher member of Acadia Institute for Data Analytics (AIDA) and a board member of Statistical Society of Canada (SSC) and the International Environmetrics Society (TIES).

Everyone is welcome to attend!

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