## Organizational Behaviour and Human Resources Division Workshop

## 'Introduction to Structural Equation Modeling: Foundations of Measurement, Path, and Structural Regression Models'

Friday, November 10, 2017 | **2:00-4:00 pm Henry Angus 968** 

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## **Abstract**

Structural equation modeling (SEM), also known as causal analysis and covariance structure analysis, is among the most popular statistical techniques in social and organizational sciences. Indeed, SEM tools allow researchers to delineate dynamic processes (i.e., longitudinal SEM), test the equivalence of measurement across groups and times (i.e., measurement invariance), and even assess mediation processes across levels of analysis (i.e., multilevel SEM). Although these and other techniques are powerful tools for researchers, learning them first requires learning the basics of SEM. The purpose of this workshop is to provide attendees with these basics of SEM. Specifically, the workshop introduces attendees to the key terms of SEM. We will then discuss how to develop and test measurement models, path models, and full structural regression models. The workshop covers both the logic of each type of modeling as well as examples of fitting the model using the lavaan package in R. The goal of the workshop is to provide attendees with the base knowledge from which they can learn more complex applications of SEM. This workshop would be well suited for individuals with an interest in developing a working understanding of SEM for advancing their research and reviewing.

## <u>Bio</u>

Dev K. Dalal is an assistant professor of psychology at University at Albany, State University of New York. He earned in PhD in Industrial-Organizational Psychology from Bowling Green State University, with a specialization in research and quantitative methods. His research interests include applied judgment and decision making, personnel psychology, measurement theory and application, and research and quantitative methods in behavioral sciences. His work has been published in *Organizational Research Methods*, *Psychological Methods*, *Journal of Applied Psychology*, and *Journal of Behavioral Decision Making*. He also serves on the editorial boards of *Organizational Research Methods*, *Journal of Business and Psychology*, *Personnel Assessment and Decisions*, and *Social Science and Medicine*.

\*\* This workshop is open to PhD students and faculty members, pre-registration is required by November 1, 2017 at 5pm via nancy.tang@sauder.ubc.ca \*\*

 $light\ refreshments\ will\ be\ served$ 

