**SEM I: Graphical Models**  
A CSCAR Workshop

**2017-1-18 2-5pm**

This workshop will help participants develop skills in understanding graphical models, and specifically from the perspective of structural equation modeling (SEM). After a general overview of concepts, regression approaches with observed variables will be demonstrated (path analysis), as well as mediation models in particular. Alternative approaches and non-SEM settings will also be discussed. Prerequisites: One should have a firm understanding of basic regression estimation techniques.

## Prerequisites

### Programming

This workshop will be conducted using R within the RStudio environment, and in particular the [*lavaan*](http://lavaan.ugent.be/) package. Nothing beyond very basic skill is assumed. If you can import a data set and perform some basic operations on it, that will be enough. Introductory tutorials can be found all over the web.

### Statistical knowledge

Statistical knowledge required includes being comfortable with standard linear regression models.

## Instructor

Michael Clark is a statistical consultant for CSCAR.

## Audience

Researchers in any field interested in such models, particularly those of the social sciences.

## Registration

Call CSCAR to register at (734) 764-7828. All fees must be paid to hold your seat in the workshop. You are not registered for the workshop until your payment has been received by CSCAR. Please make checks payable to CSCAR-University of Michigan, or give the University of Michigan short code to be billed. Send checks to: CSCAR, 3550 Rackham Bldg., University of Michigan, 915 E. Washington St., Ann Arbor MI 48109-1070.

* **Fees**: $67 for University of Michigan affiliated faculty, staff and students: $147 for others
* **Location**: Modern Languages Building Room 2001A
* **Total** Seats Available: 20