



# Multi-Level Models for Hierarchical Data with R

March 11 & 13 • 1:30 - 4:30 pm

Rm 207 Chown Building, 753 McDermot Ave, University of Manitoba, Winnipeg, MB

Multilevel models are extensions of regression for data that have a hierarchical (or nested) structure. This two half-day workshop provides an intensive introduction to multilevel models. The workshop will focus on hands-on understanding and draw from examples across the social and health sciences. **Previous experience with R and linear regression with any software will be assumed.**

## Learning Objectives

After completing the course, students will:

- » Understand the concept of multilevel model: varying regression coefficients between groups;
- » Know the technical and substantive difference between fixed and random effects;
- » Understand random intercepts, random coefficients, and crossed random effects models and know when to use each one; and
- » Know how to estimate these models with R and interpret the result.

## REGISTRATION INFORMATION

**Space is limited.** To register, please visit [CHImb.ca/events/Multi-Level-Models-2019](http://CHImb.ca/events/Multi-Level-Models-2019)

**Registration fee:** \$50      **Registration deadline:** March 7, 2019.

**Cancellations:** A registration refund will be made upon written request on or before March 7, 2019. A \$35 administrative fee will be retained. No refunds will be made for cancellations after this date.

For more information, please email [DataScience@chimb.ca](mailto:DataScience@chimb.ca).

