

1.3.5: Statistical Tests and Models

(In Person)

COMING SUMMER 2025

Module "1.3.5: Statistical Tests and Models" will be posted prior to the In-Person Workshops in Summer 2025.

Session Objectives

- 1. Develop linear and logistic regression models.
- 2. (Use a survey sampling weight to generate more representative descriptive and inferential statistical values.) Currently, this objective is under the Module 1.3.4: Missing data and sampling weight.
- 3. Interpret a model output.

Key points to cover:

- 1. Run multivariate linear regression models with R.
- 2. Run multivariate logistic regression models with R.
- 3. Include interaction terms in regression models.
- 4. (R packages for complex survey data (e.g., survey package)
 - R codes to generate weighted descriptive statistics and contingency tables, as well as to develop weighted linear models)
- 5. Interpret a model output.
- 6. (Compare the outputs of unweighted and weighted models.)

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