

## Summer Institute in Statistical Genetics

### Module 4: Regression Methods: Concepts and Applications

July 11-13, 2018

#### Instructors:

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#### Tentative Schedule:

1. Wed 1:30-3:00 pm  
Simple Linear Regression
2. Wed 3:30-5:00 pm  
Lab: Introduction to R and Simple Linear Regression
3. Thurs 8:30-10:00 am  
Prediction and Model Checking
4. Thurs 10:30 am-12:00 pm  
Multiple Linear Regression
5. Thurs 1:30-3:00 pm  
Lab: Model Checking and Multiple Linear Regression
6. Thurs 3:30-5:00 pm  
One-Way ANOVA
7. Fri 8:30-10:00 am  
Multiple Comparisons and Two-Way ANOVA
8. Fri 10:30 am-12:00 pm  
Lab: One-Way and Two-Way ANOVA
9. Fri 1:30-3:00 pm  
Logistic Regression and Generalized Linear Models
10. Fri 3:30-5:00 pm  
Lab: Logistic Regression and GLMs