

## Summer Institute in Statistical Genetics

### Module 5: Regression and Analysis of Variance

July 13-15, 2016

#### Instructors:

Rebecca Hubbard, PhD

Associate Professor, Dept. of Biostatistics & Epidemiology, University of Pennsylvania

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Professor, Dept. of Biostatistics, University of Washington

#### 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  
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  
ANCOVA; Experimental Design [if time permits]
10. Fri 3:30-5:00 pm  
Lab: ANCOVA

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