

MAA – PREP Workshop - 2012
**“Beyond Introductory Statistics: Generalized
Linear and Multilevel Models”**

Jim Albert and Brad Hartlaub
July 16-20, 2012, Gambier Ohio

Appendix A - Workshop Schedule

Daily Meal Schedule (All meals are included with your registration fee, and will be in Peirce Hall Dining Room, with the exception of Wednesday evening.)

- **7:30 - 8:30 Breakfast**
- **11:45 - 1:15 Lunch**
- **5:00 - 6:00 Dinner, except on Wednesday evening**

Curricular Schedule (All sessions will be in Hayes Hall)

- **Hayes Hall 311 - Computer Equipped Classroom**
- **Hayes Hall 109 - Regular Classroom**

Sunday, July 15

3:00 - 5:00 Check in at Taft Cottages (A)

6:00 – 7:30 Opening Reception/Welcome

Monday, July 16 - Day 1

8:30 - 10:00	Session 1 – Review of normal linear regression through an example
10:00 - 10:15	Break
10:15 - 11:45	Session 2 – Regression with indicator functions; Introduction to Minitab and R
11:45 - 1:15	Lunch in Peirce Hall
1:15 - 2:45	Session 3 – Connections between regression and ANOVA models
2:45 - 3:00	Break
3:00 - 4:30	Session 4 – Minitab and R: Some basics and LAB work / Develop a Regression/ANOVA lesson plan to share with other participants (work in pairs)

Tuesday, July 17 - Day 2

8:30 - 10:00	Session 5 – Logistic regression, examples with a single and multiple predictors
10:00 - 10:15	Break
10:15 - 11:45	Session 6 – Evaluating, checking, and comparing logistic models; Logistic modeling with Minitab and R software
11:45 - 1:15	Lunch in Peirce Hall
1:15 - 2:45	Session 7 – Introduction to loglinear models for count data
2:45 - 3:00	Break
3:00 - 4:30	Session 8 – Presentations by participants; LAB work with Minitab and R / Develop a logistic regression activity or lesson to share with other participants (work in pairs)

Wednesday, July 18 - Day 3

8:30 - 10:00	Session 9 – Building loglinear models for contingency tables
10:00 - 10:15	Break
10:15 - 11:45	Session 10 – Model checking for loglinear models
11:45 - 1:15	Lunch in Peirce Hall
1:15 - 2:45	Session 11 – Loglinear modeling with Minitab and R software
2:45 - 3:00	Break
3:00 - 4:30	Session 12 – Presentations by participants / Develop a loglinear modeling activity or lesson to share with other participants (work in pairs)
6:00 - 8:00	Picnic outside Hayes Hall

Thursday, July 19 - Day 4

8:30 - 10:00	Session 13 – Introduction to survival modeling
10:00 - 10:15	Break
10:15 - 11:45	Session 14 – Building and checking survival models
11:45 - 1:15	Lunch in Peirce Hall
1:15 - 2:45	Session 15 – Survival modeling software in R and Minitab

- 2:45 - 3:00 Break
- 3:00 - 4:30 Session 16 – Presentatiuon by participants / Develop a survival modeling activity or lesson to share with other participants (work in pairs)

Friday, July 20 - Day 5

- 8:30 - 10:00 Session 17 – Introduction to multilevel regression models
- 10:00 - 10:15 Break
- 10:15 - 11:45 Session 18 – Examples of multilevel models for logistic data; Fitting multilevel models with R and WinBUGS software
- 11:45 - 1:15 Lunch in Peirce Hall
- 1:00 - 2:15 Session 19 – Presentation by participants / Post workshop activities / Evaluations
- 2:30 - 3:30 Check out at Taft Cottages (A); keys must be returned.