

Ecology Workshop EEID June 6th – 9th, 2010
Non-Traditional Parameter Estimation & Model Fitting
Upson Hall Room B7, Cornell University

Instructors:

Steve Ellner, Cornell University spe2@cornell.edu

Helen Wearing, University of New Mexico hwearing@math.unm.edu

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Sunday, June 6th

8:30 – 9:15 **Roll Call, Introductions, & Logistics (Rm. 101 Philips Hall)**

9:15 – 10:00 **R-tutorial (Stu + whomever)**
• Review sections 1-6. (Rm. B7 Upson Hall)

10:00 – 12:00 **R-tutorial (Stu + whomever)**
• Section 7 (Random Numbers), 8 (Matrix), 9 (Loops)

12:00 – 13:00 **Lunch (provided)**

13:00 – 14:00 **Group presentations on datasets and questions**

14:00 – 16:00 **R-tutorial: 10 (Plotting), 11 (Functions), 12 (ODEs)**

16:00 – 18:00 **Get into groups and/or return to tutorial (section 13)**

Monday, June 7th

8:30 – 10:30 **Intro to Maximum Likelihood Estimation (Steve Ellner)**

10:30 – 12:00 **Simulating epidemics (John Drake)**

12:00 – 13:00 **Lunch**

13:00 – 14:00 **Student Groups Initial Presentations**
• Present possible questions/analyses

14:00 – 16:00 **Least-squares trajectory matching (John)**

16:00 – 18:00 **Student Groups**
• Work, think, work

Tuesday, June 8th

- 8:30 – 10:00** **Trajectory matching with MLE (Steve)**
- 10:00 – 12:00** **Spectral Methods (Helen Wearing)**
- 12:00 – 13:00** **Lunch**
- 13:00 – 15:00** **Probe matching & particle filtering (Matt Ferrari)**
- 15:00 – 17:00** **Student Groups**
- Work, think, work

Wednesday, June 9th

- 9:00 – 12:00** **Student Groups**
- Work, think, work
- 12:00 – 13:00** **Lunch**
- 13:00 – 15:00** **Student Groups**
- Work on presentations
- 15:00 – 17:00** **Student Presentations**
- Present results in short ppt – 10 min/group