

Schedule - Phylogenetics in R  
16 May 2011

- 9-10 AM - introduction, getting started in r  
how to talk to r  
*practice: entering commands and functions in r*
- 10-11 AM - reading in and manipulating data  
reading in datafiles  
reading in trees  
working with trees, plotting  
matching trees and data  
(if time) reading in sequences  
*practice: reading in a comparative dataset*
- 11-12 AM - contrasts, ancestral character states, and phylogenetic signal  
calculating phylogenetic signal  
finding ancestral character states  
calculating pics  
PGLS  
*practice: basic comparative methods*
- 12-1 PM      Lunch break
- 1-2 PM -      simulating data  
simulating trees, making lineage-through-time plots  
simulating character data  
creating functions and loops  
*practice: running simulations in r*
- 2-3 PM -      fitting models of macroevolution  
fitting birth-death models  
the gamma statistic  
using fitDiscrete and fitContinuous  
using ouch and diversitree  
*practice: models of macroevolution*