



## Simultaneous estimation of trees and multiple sequence alignments

Tandy Warnow, PhD  
Professor  
Department of Computer Science  
University of Texas at Austin

Friday, May 2, 2008  
2:00 pm – 3:00 pm  
COOK 3118 A&B

### **ABSTRACT:**

The inference of evolutionary history presents enormous computational and mathematical challenges which are particularly exacerbated when dealing with very large datasets (containing thousands of sequences) or when sequences evolve under complex models of evolution. In this talk, I will describe some of the recent progress in large-scale phylogenetics, focusing on simultaneous estimation of multiple sequence alignments and phylogenies.