Mathematical & Computational Biology Seminar
Organizer: Lior Pachter

Wednesday, 2:00–3:00pm, 939 Evans

Sep. 3  Noah Rosenberg, University of Michigan

Gene tree discordance, phylogenetic inference, and the multispecies coalescent

The topologies of gene trees that evolve along the branches of a species tree need not match the species tree topology. Assuming that evolution follows a coalescent model within individual species, this talk will investigate the properties of “anomalous gene trees,” gene tree topologies that are more likely to occur than the topology that matches the species tree. An extension to anomalous ranked gene trees will be examined, and the talk will conclude by considering the influence of anomalous gene trees on algorithms for phylogenetic inference from multigene data.