A statistically consistent coalescent-based *k*-mer method for phylogenetic tree reconstruction

Chris Durden

North Carolina State University

April 7, 2017

Phylogenetic tree reconstruction methods

Phylogenetic tree reconstruction methods

Alignment-based methods

Multiple sequence alignment

Site pattern frequencies

Inference based on substitution model

Phylogenetic tree reconstruction methods

Alignment-based methods

Guide tree

↓

Multiple sequence alignment

↓

Site pattern frequencies

↓

Inference based on substitution

model

Coalescent-based expected k-mer vector distance

