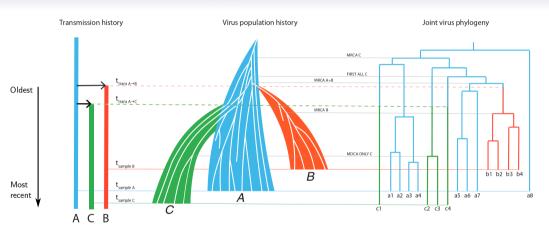
My goal this summer

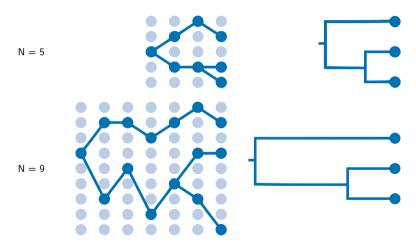


Work from a phylogeny to the original transmission history



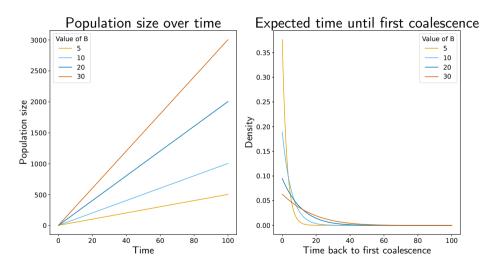
Coalescent modeling

Large N causes node times to be further apart, stretching the tree



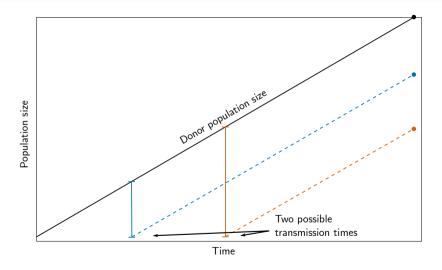


Time until first coalescence with arbitrary B



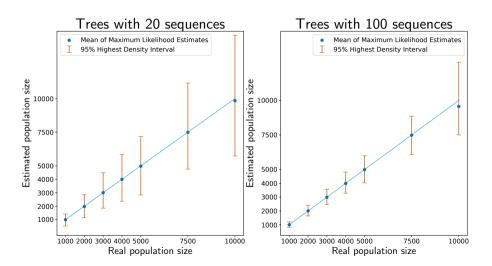


Expected signal for transmission time with two hosts



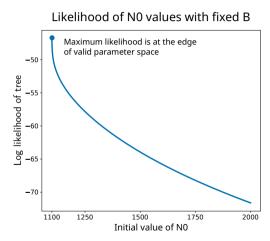


My results so far: Constant population size, single host

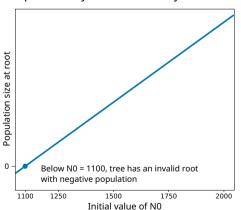




My current progress on linear populations



Population dynamics that may cause this





Attempting a grid search revealed scaling mistakes with B

I have the high ground, bananakin! I can't add this image now because I can't properly git pull, so it will need to be last minute tomorrow morning.



Next steps: Moving towards two hosts and linear population

- * Look into incorrect population growth scaling across the project
- * Instead of a grid search, explore more serious optimization methods
- * Expand to a two-host problem so I can examine transmission time
 - Split tree by host
 - Isolate hosts until a transmission occurs

