

# Simulations

- ▶ Tried several different mass/accretion time separations for 2x2
- ▶ 2x2 grid reliably converged on the correct mixing proportions
- ▶ 5x5 grid produced an accurate formation history for some halo realizations, but not all
- ▶ since the mixing components are generated from 1,500 satellites, and the observed data points from some subset of these, the 5x5 grid was too granular—there is a limit to how specific we can be if our generative model doesn't know about the vagaries of the individual galaxy its looking at
- ▶ since these observations were generated from the simulations (not our model) we know the correct mixing proportions,  $\pi$