Latent ODE Model: Lotka-Volterra Equations training step: 500 training step: 750 training step: 250 training step: 1000 extrapolation extrapolation 1.751.50 q 1.25 0.750.500.252515 20 15 25 10 15 time (s) time (s) time (s) time (s) LatentODE 1.6 exact ODE: extrapolated 1.4 predator 0.80.6prey prey prey prey 6 **F** latent0 latent1 latent2 latent3 latent4 latent5 latent6 latent7 latent8 latent9 latent10 15 2515 25 latent12 latent13 ime (s)

time (s)

time (s)

time (s)

latent14 latent15