Timeseries of UODE Error Neural Network Fit of U2(t) 10^{-2.5} 10^{-3.0} 1.5 1.2 **Neural Network** 10^{-3.5} y(t) 0.9 True Missing Term 0.6 10-4.0 0.3 0.3 0.6 0.9 1.2 1.5 1.5 2.0 2.5 3.0 0.5 1.0 X Extrapolated Fit From Short Training Data

