True Dynamics   **Simulated Dynamics**
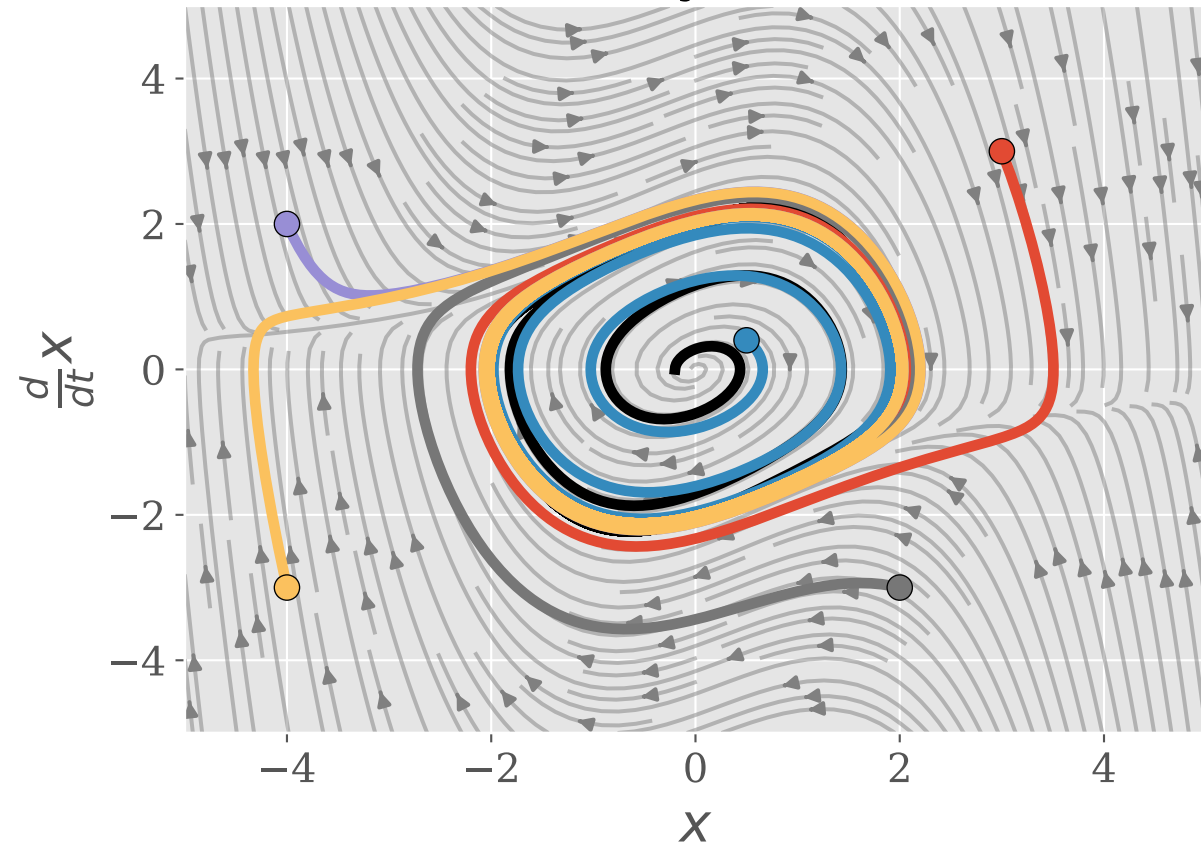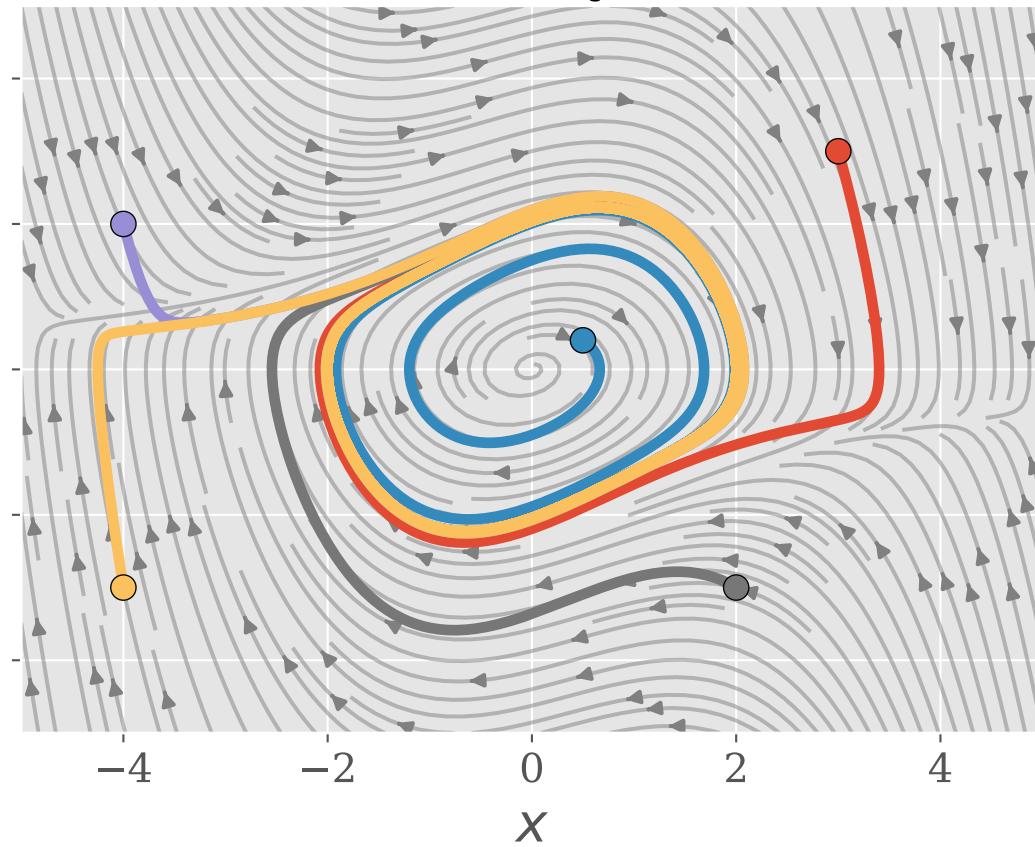
Legend:
- Observed Trajectory
- $x(0)=3.0$, $\frac{d}{dt}x(0)=3.0$
- $x(0)=0.5$, $\frac{d}{dt}x(0)=0.4$
- $x(0)=-4.0$, $\frac{d}{dt}x(0)=2.0$
- $x(0)=2.0$, $\frac{d}{dt}x(0)=-3.0$
- $x(0)=-4.0$, $\frac{d}{dt}x(0)=-3.0$

Axis labels: x (horizontal), $\frac{d}{dt}x$ (vertical)