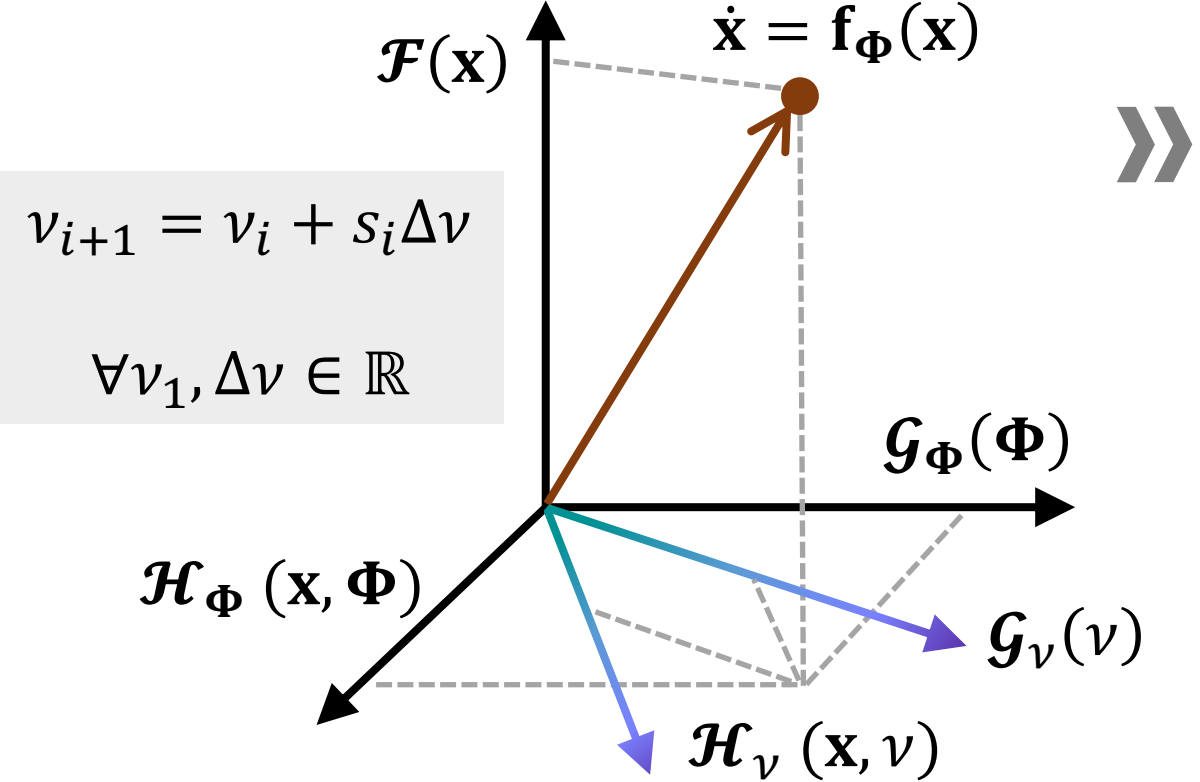


a **True dynamics**

$$\dot{\mathbf{x}} = \mathbf{f}_{\Phi}(\mathbf{x}) \in \text{span}\{ \mathcal{F}(\mathbf{x}), \mathcal{G}(\Phi), \mathcal{H}(\mathbf{x}, \Phi) \}$$

$$\Phi \in \mathbb{R}^n, \Phi_{i+1} = \Phi_i + s_i \Delta \Phi$$

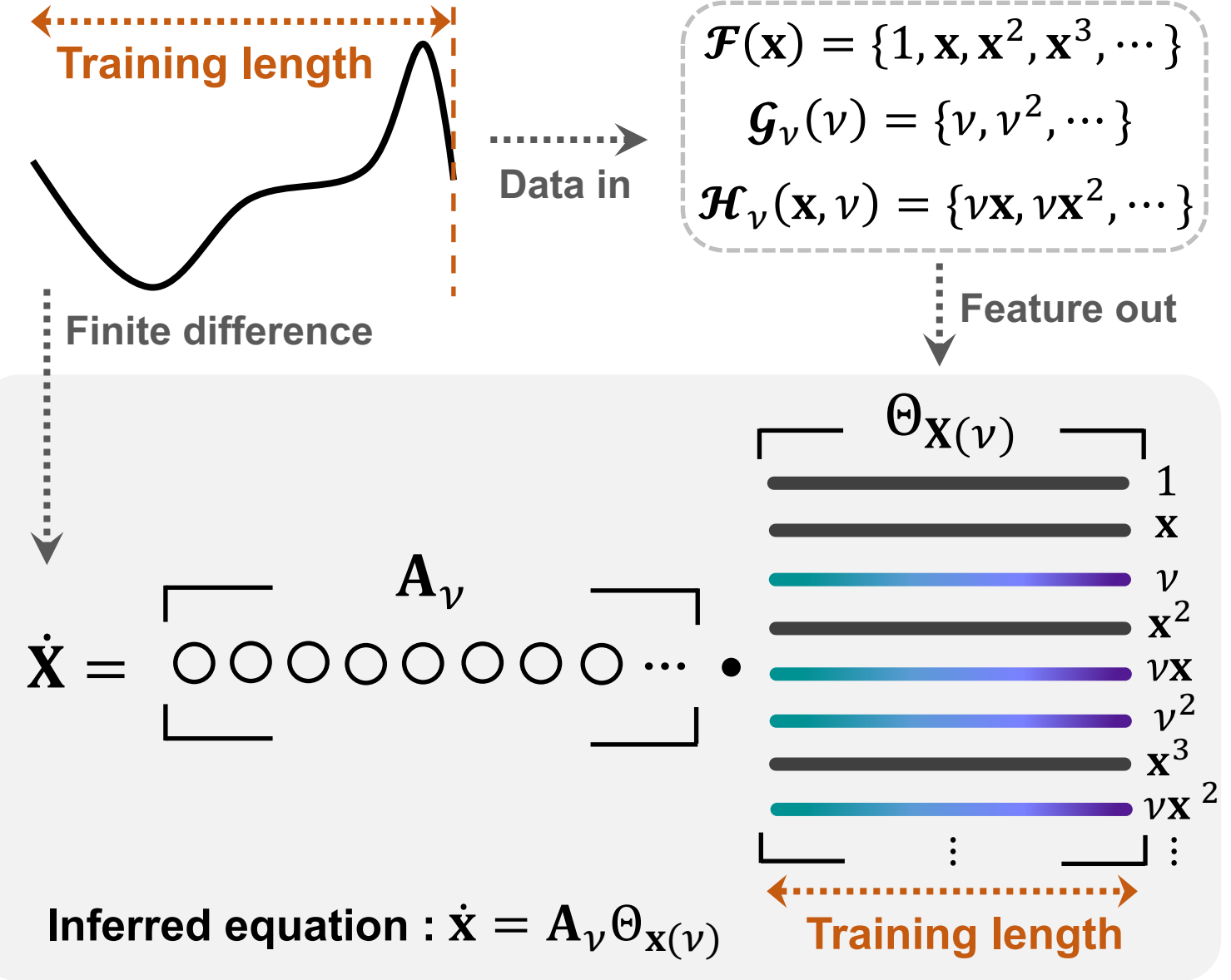
b Equivalent basis in model space



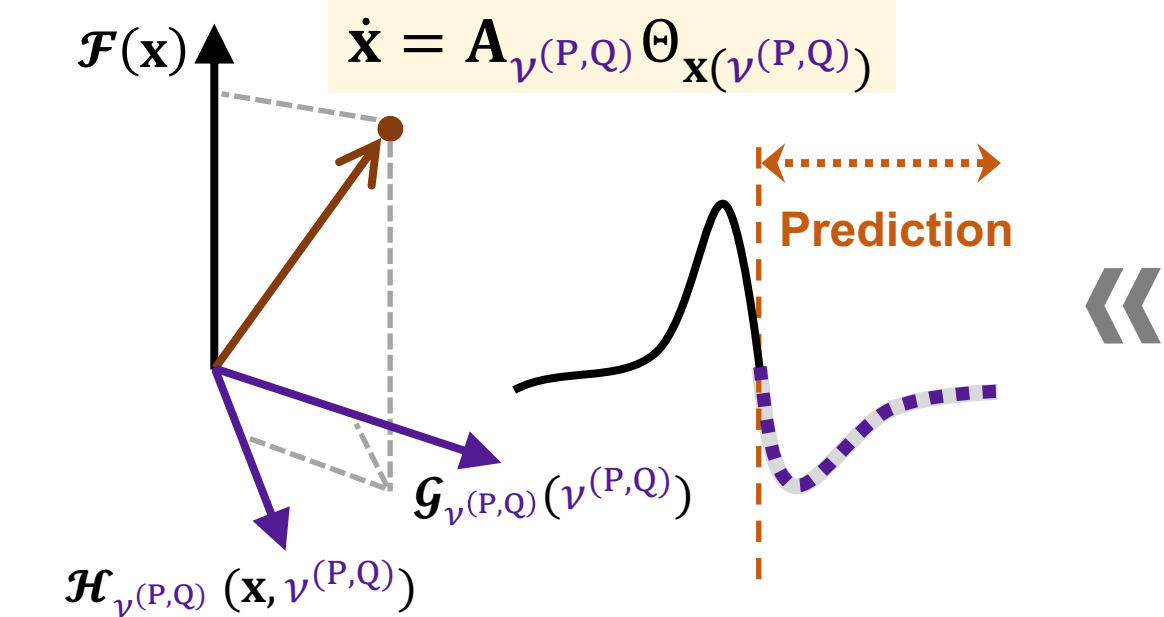
C Discretizing ν for grid search

$v_1^{(1)}$	$v^{(1,1)}$	\dots	$v^{(1,N)}$
\vdots	\vdots	$v^{(P,Q)}$	\vdots
$v_1^{(M)}$	$v^{(M,1)}$	\dots	$v^{(M,N)}$
	$\Delta v^{(1)}$	\dots	$\Delta v^{(N)}$

d Solving coefficient matrix A_v for each grid



f Inferred equation with optimal ν



e Identifying the optimal ν with least ε AIC: $\nu^{(P,Q)}$

