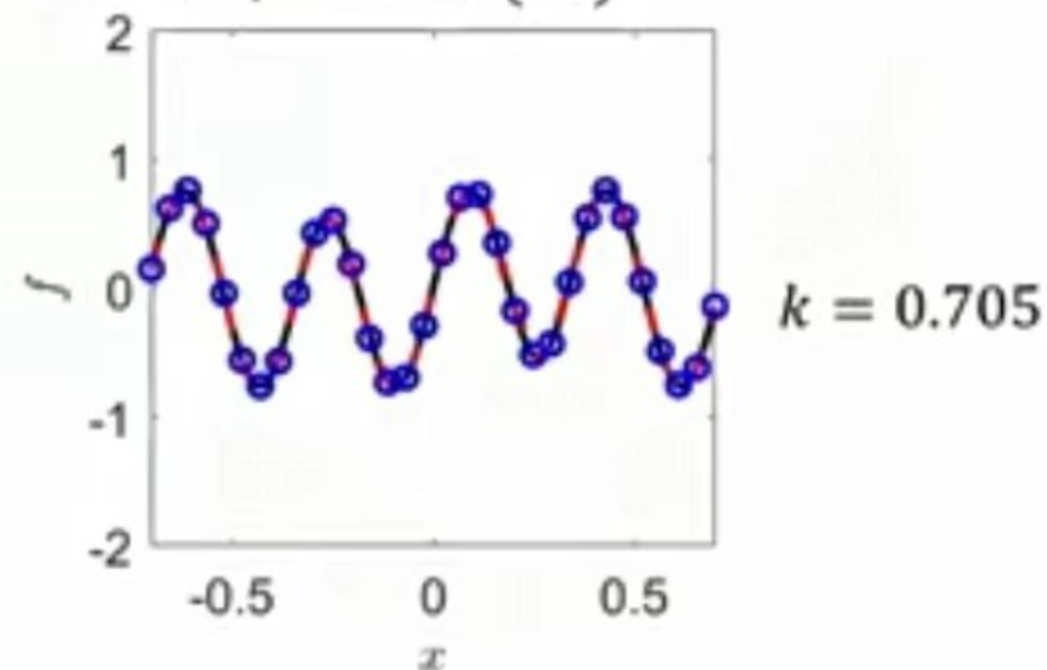
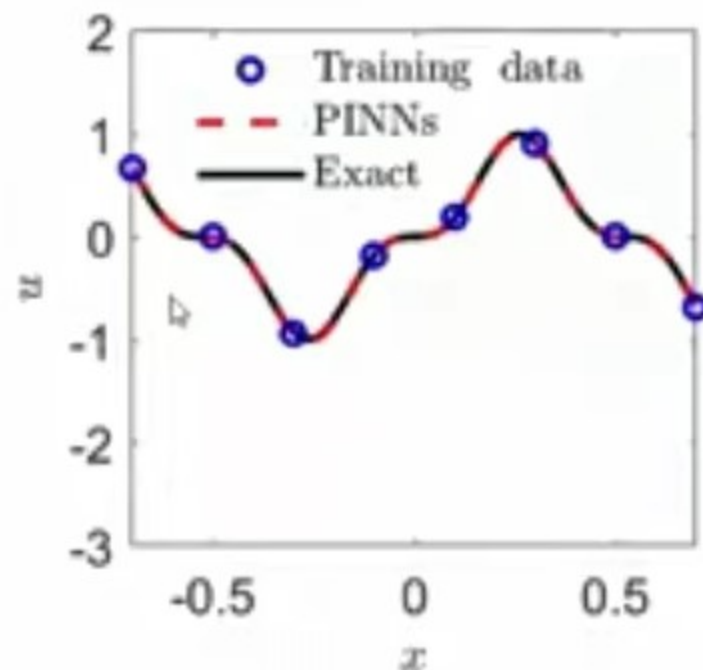


1D inverse diffusion-reaction system: $D\partial_x^2 u + k \tanh(u) = f, x \in [-0.7, 0.7]$

$$k = 0.7, u = \sin^3(6x)$$

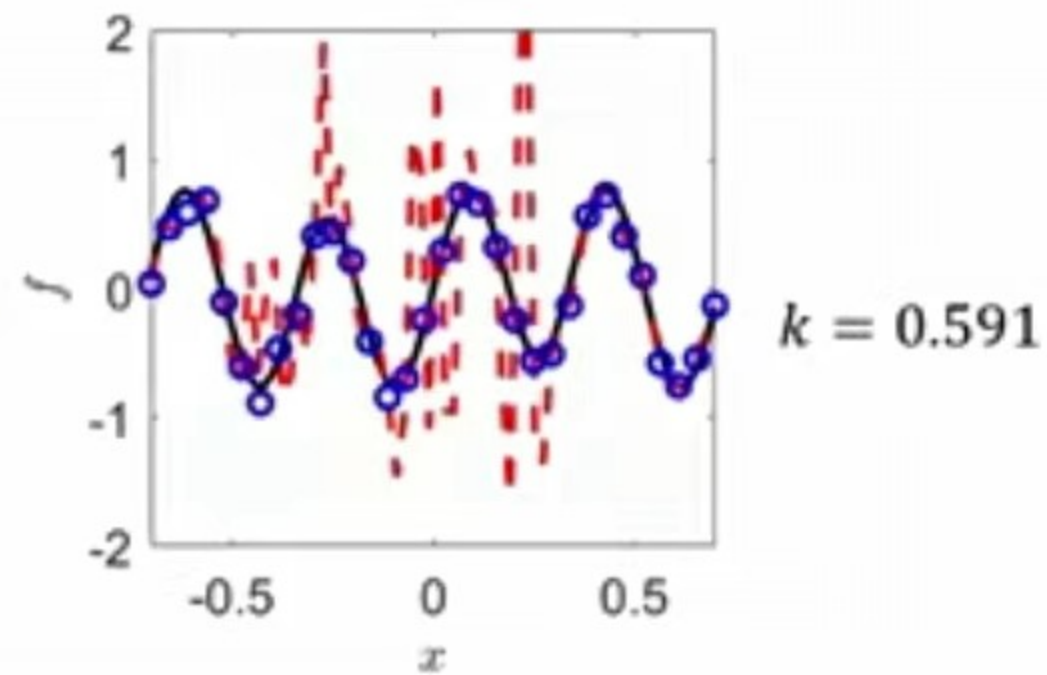
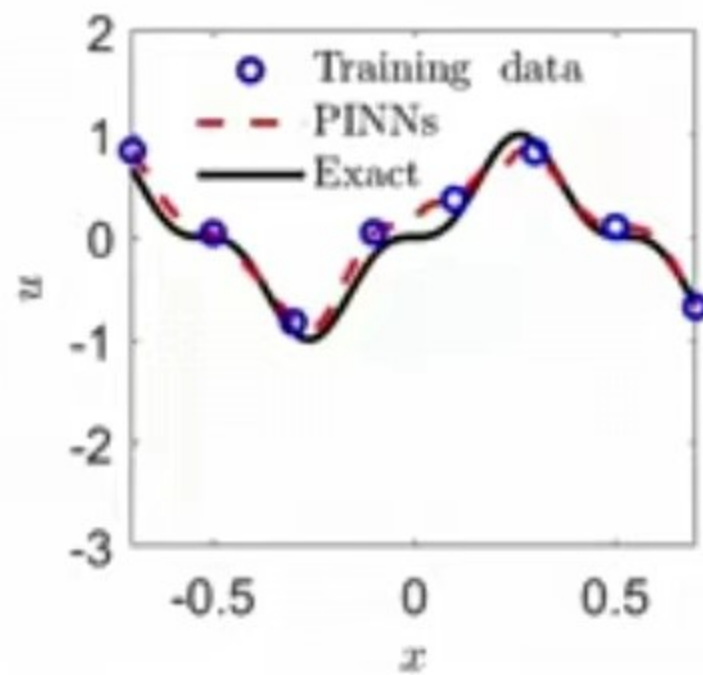
NN: 2×50

$N(0, 0.01^2)$



$k = 0.705$

$N(0, 0.1^2)$



$k = 0.591$