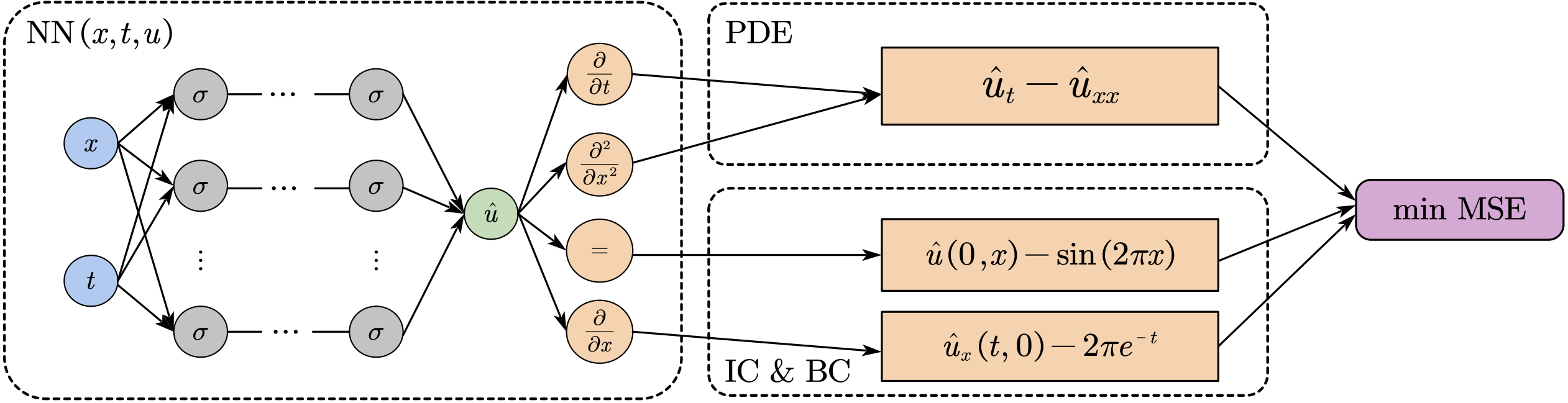
NN (x,t,u)
x
t
σ
$\hat{u}$
$\frac{\partial}{\partial t}$
$\frac{\partial^2}{\partial x^2}$
$=$
$\frac{\partial}{\partial x}$
PDE
$\hat{u}_t - \hat{u}_{xx}$
IC & BC
$\hat{u}(0,x) - \sin(2\pi x)$
$\hat{u}_x(t,0) - 2\pi e^{-t}$
min MSE