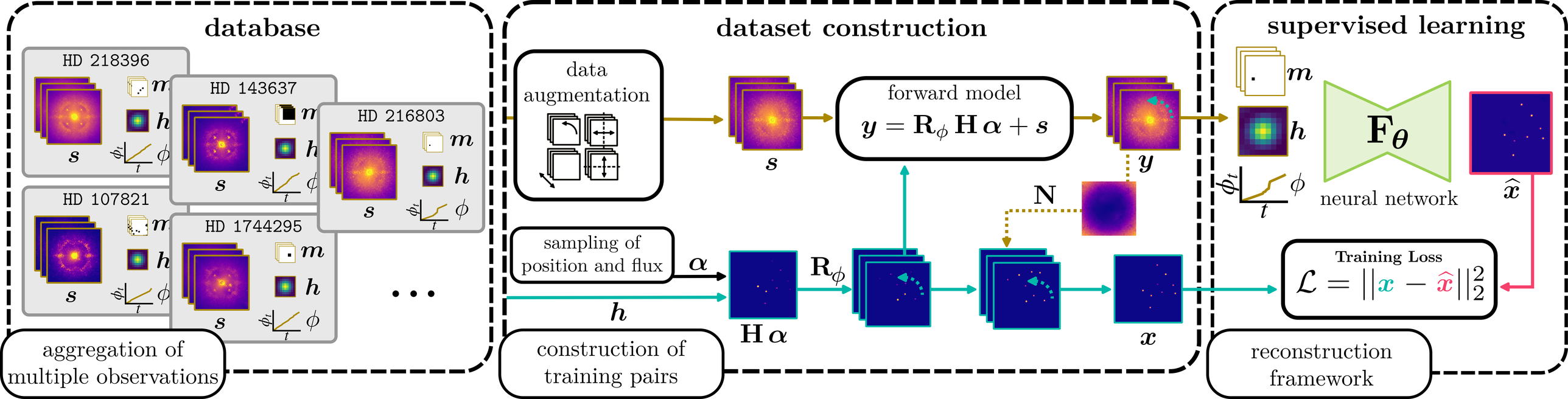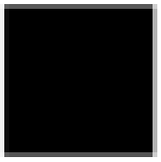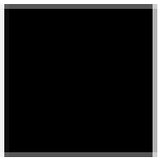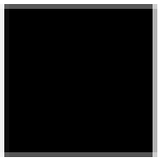
database
HD 218396
HD 143637
HD 216803
HD 107821
HD 1744295
aggregation of multiple observations
dataset construction
data augmentation
forward model
$y = \mathbf{R}_\phi \mathbf{H} \alpha + s$
sampling of position and flux
α
h
$\mathbf{H}\alpha$
$\mathbf{R}_\phi$
N
construction of training pairs
supervised learning
$\mathbf{F}_\theta$
neural network
Training Loss
$\mathcal{L} = ||x - \hat{x}||_2^2$
reconstruction framework