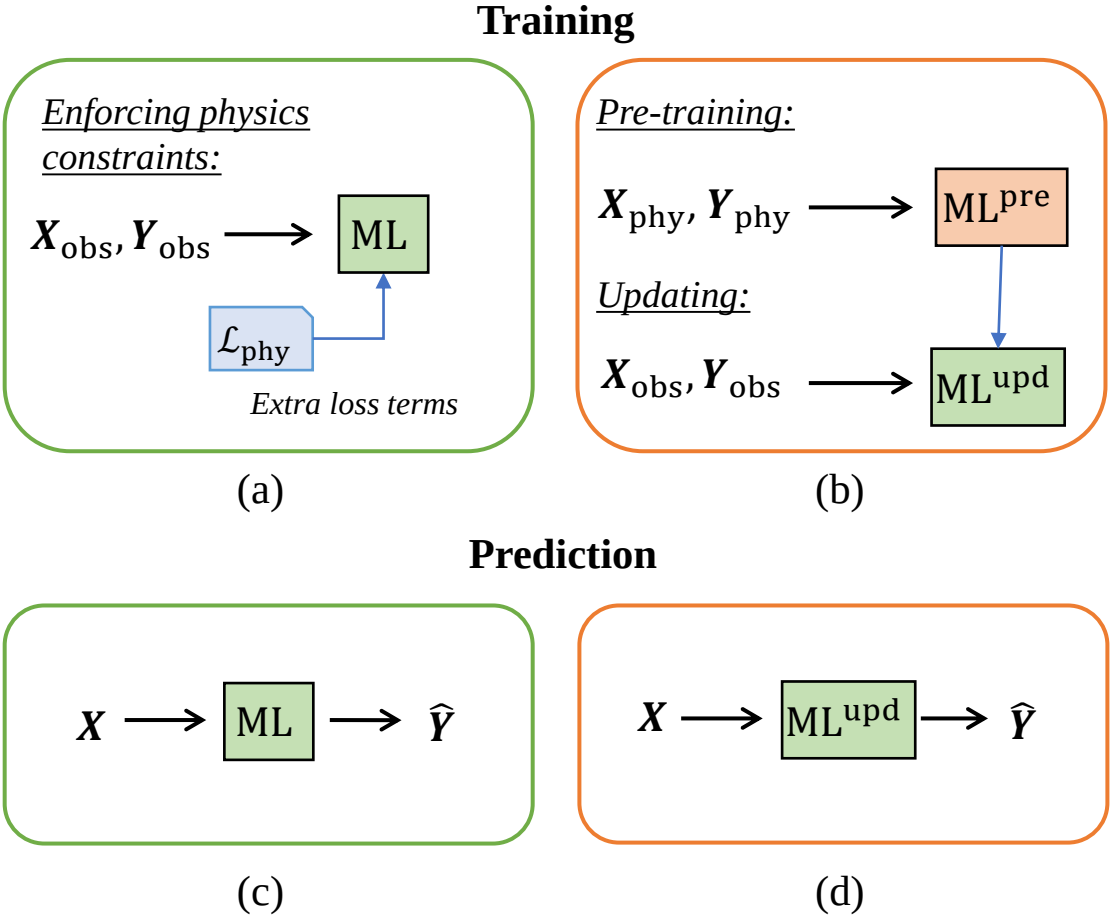
Training
Enforcing physics constraints:
X_{obs}, Y_{obs}
ML
$\mathcal{L}_{phy}$
Extra loss terms
(a)
Pre-training:
X_{phy}, Y_{phy}
ML^{pre}
Updating:
X_{obs}, Y_{obs}
ML^{upd}
(b)
Prediction
X
ML
$\hat{Y}$
(c)
X
ML^{upd}
$\hat{Y}$
(d)