$$X_{dat}$$
 \longrightarrow Align X_{dat} \longrightarrow X_{dat}^{align} \longrightarrow X_{dat}^{align} \longrightarrow X_{ref} \longrightarrow Align X_{ref} \longrightarrow Classify X_{dat} \longrightarrow \widehat{Y} $\mathscr{L} = C_{ref} \cdot \text{Variance} \left(X_{ref}^{align} \right) + C_{align} \cdot \text{Variance} \left(X_{dat}^{align} \right) + C_{class} \cdot \text{CrossEntropy} \left(Y, \widehat{Y} \right)$