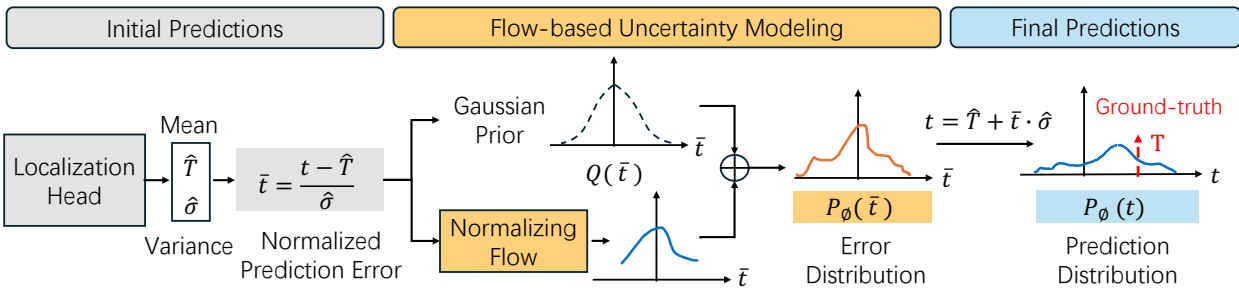

Initial Predictions
Flow-based Uncertainty Modeling
Final Predictions
Localization Head
Mean
$\hat{T}$
$\hat{\sigma}$
Variance
$\bar{t} = \frac{t - \hat{T}}{\hat{\sigma}}$
Normalized Prediction Error
Gaussian Prior
$Q(\bar{t})$
$\bar{t}$
Normalizing Flow
$\bar{t}$
$P_\emptyset(\bar{t})$
Error Distribution
$t = \hat{T} + \bar{t} \cdot \hat{\sigma}$
Ground-truth
T
t
$P_\emptyset(t)$
Prediction Distribution