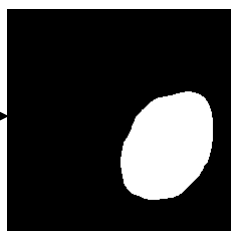
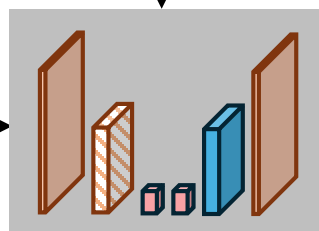


**Training phase
(Every epoch)**

Update weights via backprop



PolyDice-1
Loss



Input Image X_n

Prediction \hat{Y}_n

Adaptive ϵ_n

Ground Truth Y_n

Fix weights

Control Function

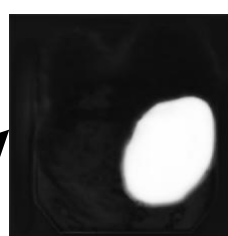
Normalization

Difficulty Metric

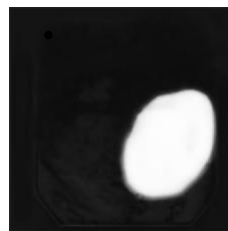
Aggregation

Uncertainty
Score

Input Image X_n Segmentation
model



$\vdots \hat{Y}_n^{(1)}$



$\hat{Y}_n^{(T)}$

**Adaptive Control phase
(Every τ epoch)**

Multiple predictions
with MC Dropout