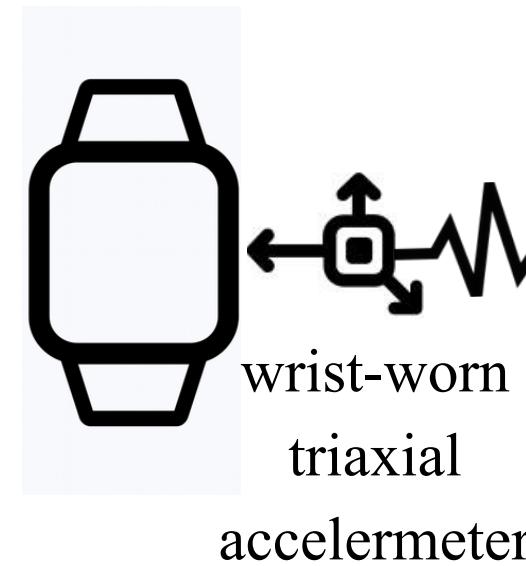
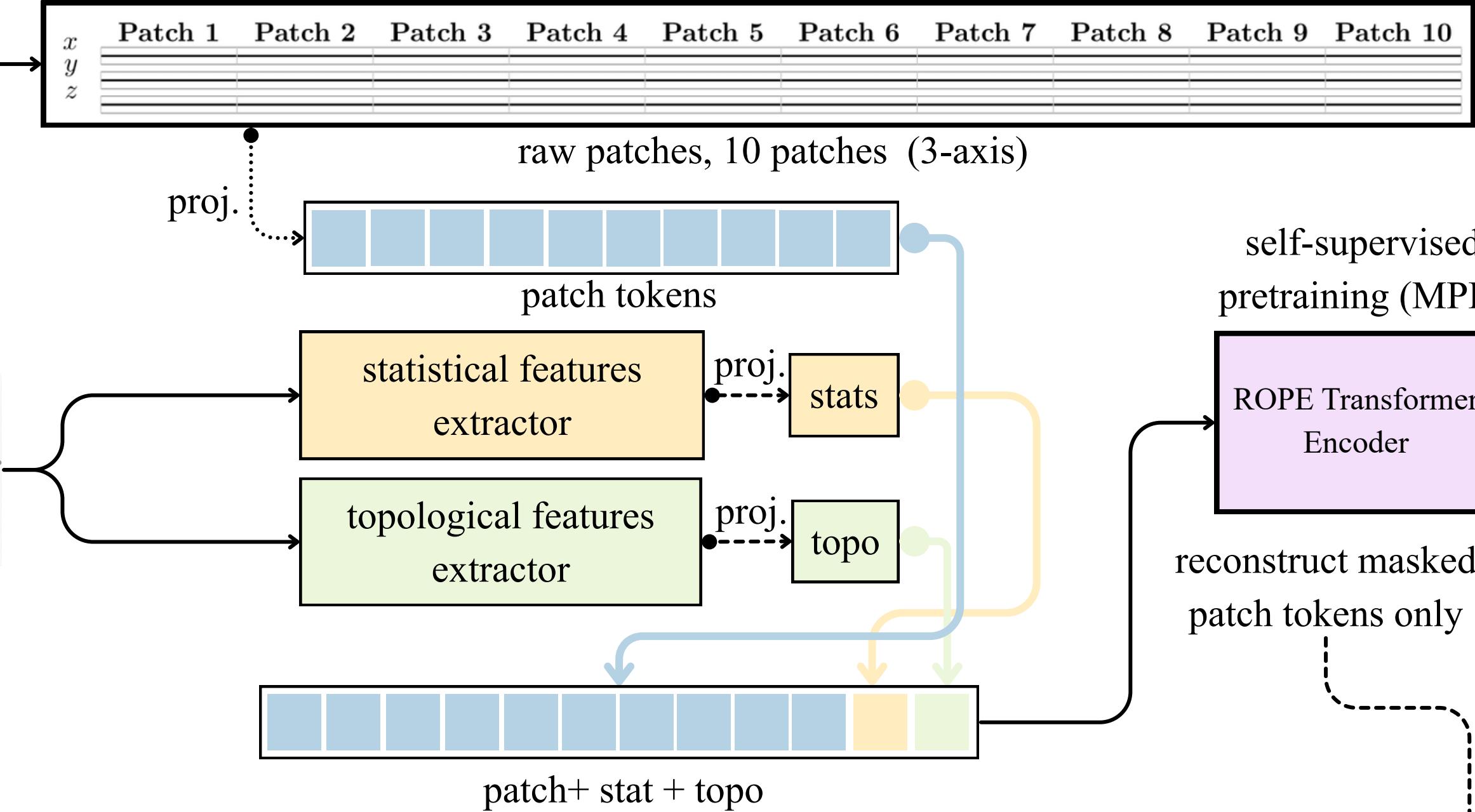


Large free-living dataset



1 Self-supervised Pretraining Masked Patch Reconstruction (MPR)



self-supervised
pretraining (MPR)

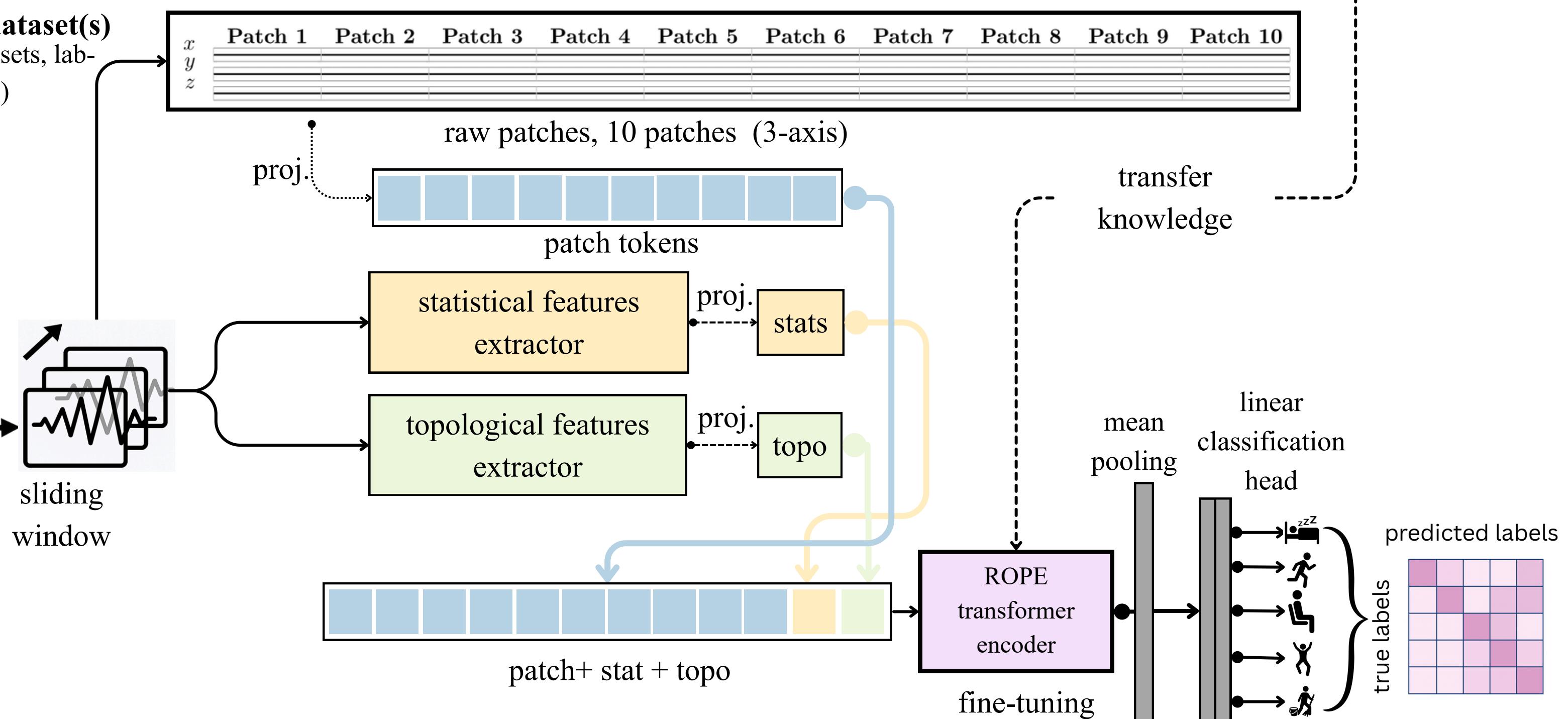
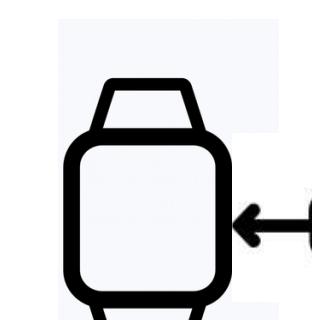
ROPE Transformer
Encoder

\mathcal{L}_{MPR}
MSE
Loss

reconstruct masked
patch tokens only

Smaller and labeled dataset(s)

(open or closed source datasets, lab-
based or free living)



transfer
knowledge

mean
pooling
linear
classification
head

predicted labels
true labels

fine-tuning

2 Fine-tuning for Human Activity Recognition (HAR), and other tasks