

## A Supplementary Materials

Here, we demonstrate the effect of out-of-domain species on in-domain pose estimation. We explored the effect of the size of other synthetic animal data on target animal’s pose predictions during training. The result is shown in Fig. S1.

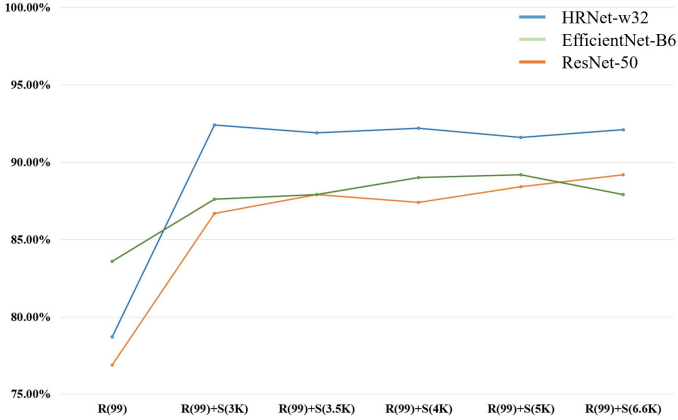


Figure S1: The line graphs showing the results of the three backbones, HRNet-w32 (in blue) [21], EfficientNet-B6 (in green) [22], and ResNet-50 (in orange) [10], tested on Zebra-300 (300 real images) under different training sets. The training set contains only 99 real zebra images (from AP10K) and augmented with SynAP (3000 synthetic zebra images) or SynAP+ (3000 zebra and other animal synthetic images). We tried 4 different sizes of other animal synthetic images in SynAP+. There are 500, 1K, 2K, 3.6K.