



UNIVERSITY OF
OXFORD

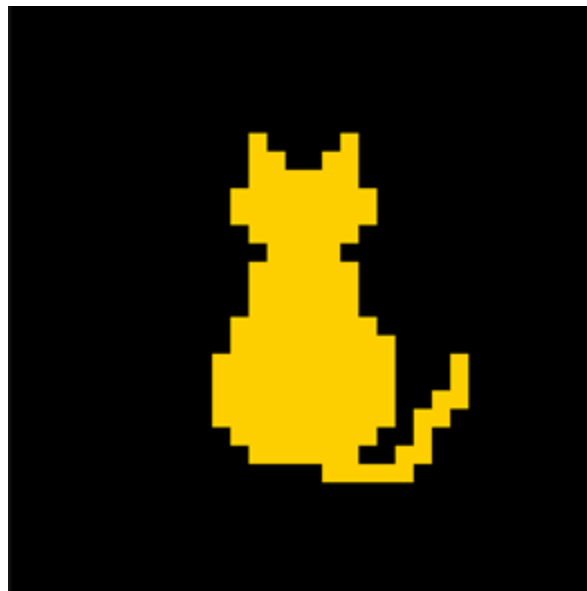
DEPARTMENT OF
**COMPUTER
SCIENCE**

The Role of Multi-Annotator Datasets in Medical Segmentation Uncertainty

Sophie Fischer

Irina Voiculescu

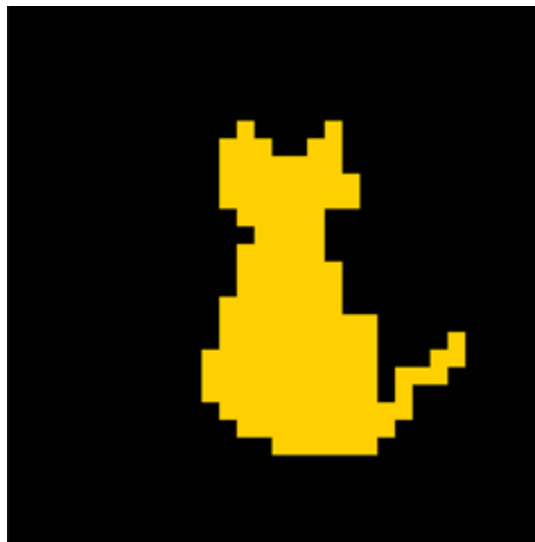
Segment a Cat



cat

not
cat

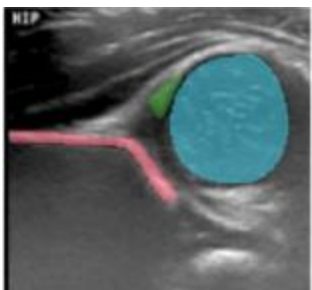
AI vs Human



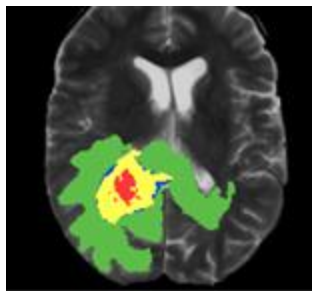
AI



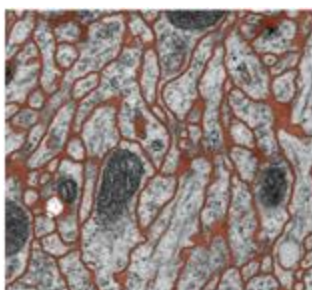
HUMAN



NOISY

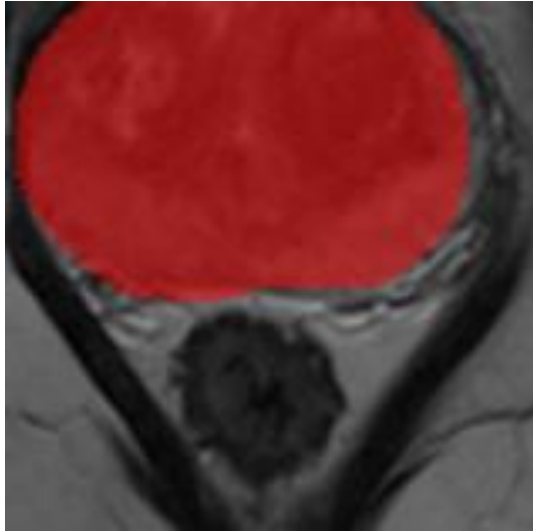


AMBIGUOUS

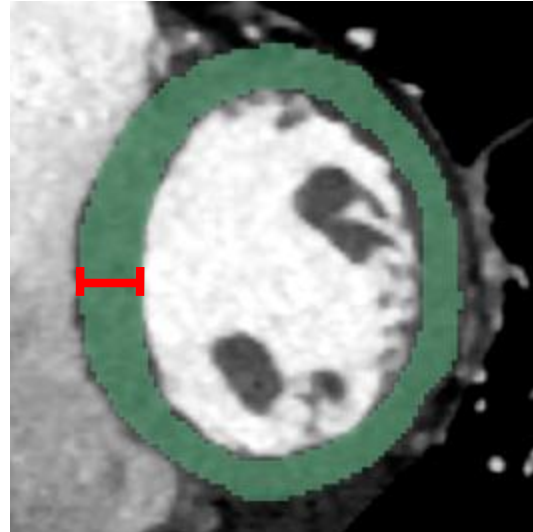


DIFFICULT

Clinical Purpose

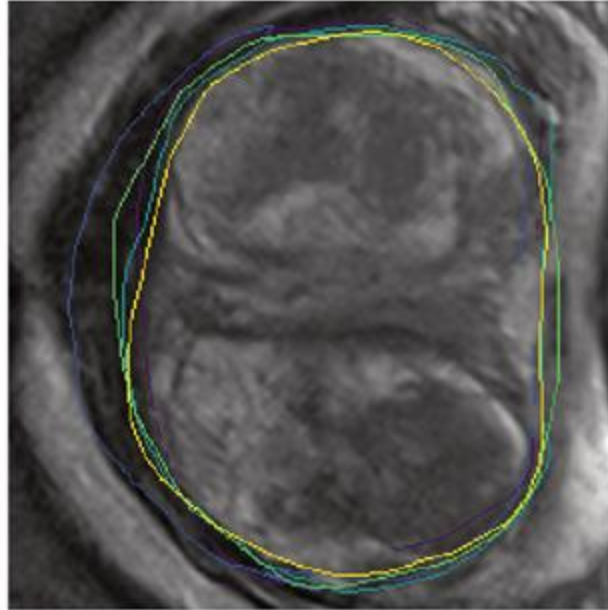


VOLUME



WIDTH

In an Ideal World...

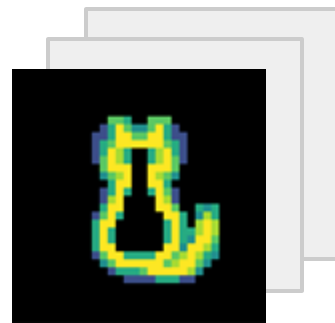


Updating Uncertainty



variability: 0.7

CURRENT



variability: varies!

OURS