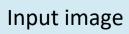
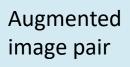
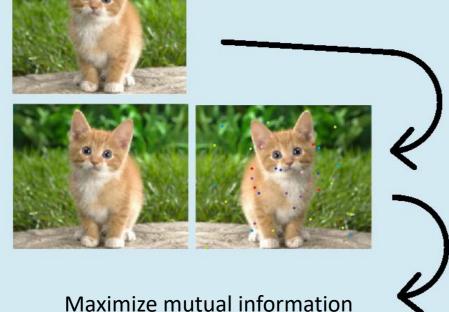
## Invariant Information Clustering for Unsupervised Image Segmentation

## Method

- Input unlabeled image
- Generate augmented image pair
- Maximize mutual information between patches







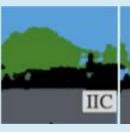
- The model has now learned how to correctly identify the class of a pixel in an image

## **Experiment and Result**

- Followed procedure to filter COCO3 dataset
- Trained for 24 hours

Original







Ours

- Experiment:
  - Extra criterion of 75% content pixels
  - Trained for same number of epochs as original experiment

## Conclusion

- Results were comparable
- Differences:
  - Number of epochs trained
  - Number of heads in the network
- 68% accuracy vs original 72% accuracy

