**Deep Learning and Generative Models**

**Project assignment #15**

**Project objective**:

* Pixel level segmentation in PETS dataset

**Dataset**:

* Pets dataset provides the segmentation mask of a large variety of pets <https://www.robots.ox.ac.uk/~vgg/data/pets/>

**Network model**:

* A segmentation model should be used for this task. UNet is a good choice, but you can experiments with different architectures.

**Detailed information**:

* Starting from a rgb image of a pet the network should output a segmentation mask of the pet. Only a single pet is present in each image.
* Intersection over Union, L1 distance are good metrics to evaluate the results.

**Additional notes**:

* Experiment also with in-the-wild samples (meaning images not extracted from the pets dataset: e.g. found online or taken by a smartphone). Does the network perform well over these images?
* That happens if more than on animal is in one image? How does the model perform?