

### 3- Final Project (First Steps)

Currently I am at a stage in my research where we are working on generating hologram images to train a ML program on (seems to be YOLOv11 as of now), so I was thinking of reworking some of the [existing code](#), specifically LorenzMie.py (which creates the fields/holograms) to produce torch outputs (i.e tensors?) instead of cupy or numpy arrays to then make a more optimized/streamlined training setup, and then proceed with training. Not sure how intensive this actually is (i.e. if it's intensive enough for a final project), but presumable as I work on it I can introduce tasks as necessary.