**Part 1:**

* 1. In the time allowed, how many images did you annotate?

⁃ I could annotate 5 images every 5 sec

* 2. Home many instances of the Millennium Falcon did you annotate? How many TIE Fighters?

⁃ 175 Tie Fighters

⁃ 137 Millennium Falcons

* 3. Based on this experience, how would you handle the annotation of large image data set?

⁃ Manual annotation is time consuming. It will be good if we can annotate them programmatically or through crowd sourcing.

* 4. Think about image augmentation? How would augmentations such as flip, rotation, scale, cropping, and translation effect the annotations?

⁃ It would improve the richness and diversity. Most of the images are just different angles and sizes.

**Part 2:**

Describe the following augmentations in your own words:

• **Flip** - Mirroring an image along an axis.

• **Rotation** - Spinning the image around a particular point on the image.

• **Scale** - Make image smaller or bigger

• **Crop** - Cut parts of the image

• **Translation** - Move the along the different axes

• **Noise** - Random variation in the brightness and color information.

**Part 3:**

Image annotations require the coordinates of the objects and their classes; in your option, what is needed for an audio annotation?

- Time of sound segment (initial and final)

- Sound quality metrics: Intensity (decibels), Frequencies (pitch),