# Week 2

## Goals

	GOAL 1: Proceed with pre-processing pipeline on the newly annotated 8000+ Ecuador images.			
		Produce visualizations on the new distribution at animal class, order and species level.		
		Create new datasets: 1) combining Brazil and Ecuador images 2) only Ecuador images		
exi spe	stino ecies	ng this goal will provide my team with cleaned larger datasets to re-train g classification and detection models. This will also allow us to identify s/orders that requires more sample images to be extracted from video tions.		
		AL 2: Repeat model building process for object detection with new image asets		
		Re-train models at binary, class, order levels		
		Produce evaluation metrics to compare with previous detection models		
wit	h all	ng this goal will move my team closer to the updated detection models of the image data currently available to us. This will also allow us to y the prediction performance at current level of class		

### **Expected Working Timeline**

<u>Aa</u> Name	Assign	<b>≡</b> Date	# Expected Hours Spent	Status
<u>Client</u> <u>Meeting</u>		@Jan 25, 2021	1	Completed
Goal 1	j Jiayue Xu	@Jan 25, 2021 → Jan 29, 2021	6	In Progress
Goal 2	j Jiayue Xu	@Jan 30, 2021 → Jan 31, 2021	4	Not Started

Week 2

<u>Aa</u> Name	Assign	<b>≡</b> Date	# Expected Hours Spent	Status
Internal Meeting		@Jan 31, 2021	1	Not Started

### Report

#### This table is awesome.

#### **Actual Working Timeline**

<u>Aa</u> Name	E Assign	<b>□</b> Date	# Actual Hours Spent	Status
Client Meeting	Team	@Jan 25, 2021	1	Completed
Goal 1	Individual		2	Blocked
Goal 2	Individual			Blocked
<u>Urgent Internal</u> <u>Meeting</u>	Team	@Jan 27, 2021	1	Completed
<u>Urgent Client</u> <u>Meeting</u>	Team	@Jan 28, 2021	1	Completed
Revised Goal 1	Individual	@Jan 28, 2021 → Jan 29, 2021	4	Completed
<u>Internal</u> <u>Meeting</u>	Team	@Feb 1, 2021	1	Not Started



GOAL 1: Proceed with pre-processing pipeline on the newly annotated 8000+ Ecuador images.

While working on this goal, I discovered that 973 of the 8000+ new Ecuador images, which were initially classified into animal species by the client, but are missing bounding box annotations. Upon clarification with Ryan and Caitlin, who are client's data managers, we were informed that these are images that student volunteers fail to clear identify the animal species. This discrepancy surface a critical decision to be made: **should this images be labeled as "Ghost" images** 

Week 2

(does not contain animal species)? Through a urgent client meeting with Ryan, we came to the final decision that these images will be reviewed to classify into below 3 categories:

- If the animal species in the image is identifiable by human annotator, without any external information from other images, it will be labeled as the animal species and generate json file with bounding box annotation
- If it can be identified that there is an animal, but not clear which animal species it belongs to, the image will be labeled as "Unknown" and generate json file with bounding box annotation
- If animal cannot be clear identified from the background, the image will be labeled as "Ghost" and generate son file with no bounding box annotation

We also established that it is necessary to also review the old images that were marked as "Blur", and apply the same decision rule as above. There were 543 old images from Brazil and Ecuador that need to be reviewed for this reason.



REVISED GOAL 1: Create a folder with copies of the 973 + 543 images to be reviewed, so that Ryan and Caitlin can proceed with the review process more efficiently

Nice job explaining what blocked the progress of goal 1 and providing a revised version. Linking git commit in this way is not the most accessible.

revised version. Linking git commit in this way is not the most accessible way, though. I'd recommend use markdowns rather than pdfs going forward where you can add links.



GOAL 2: Repeat model building process for object detection with new image datasets

Due to the incompletion of Goal 1, Goal 2 was not able to proceed and put on hold until the review process of the images were completed.

Generally very well written. The timeline table is really a straightforward to put it!

Week 2