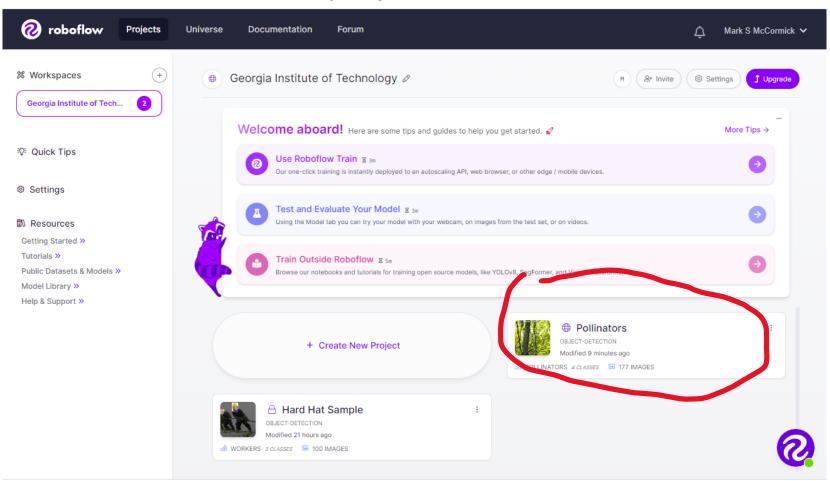
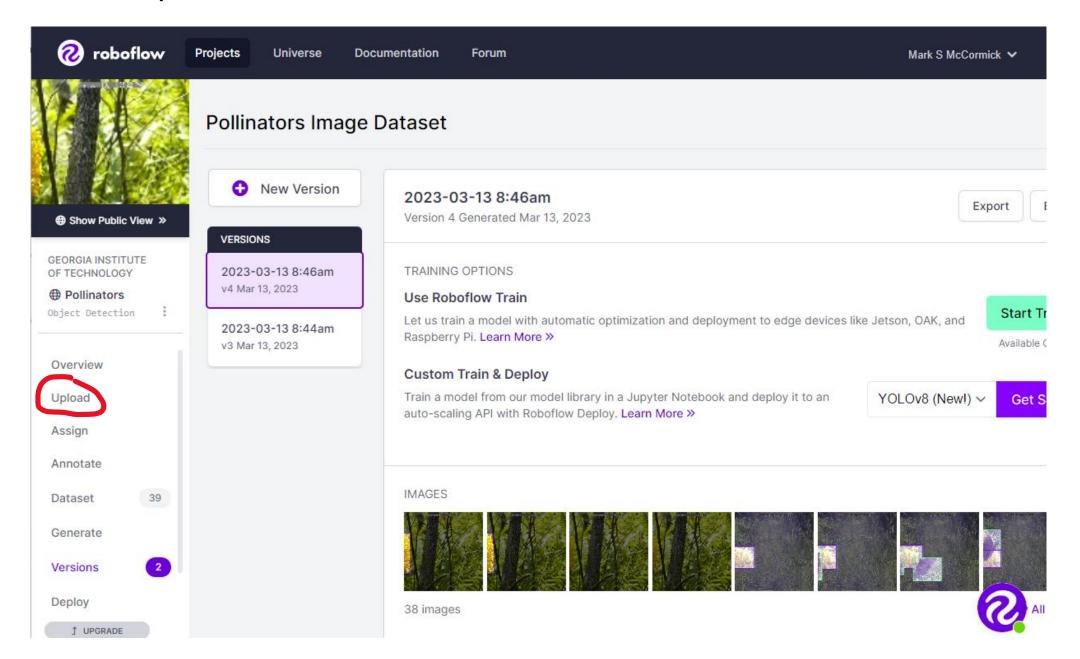
Pollinator Image Annotation Directions

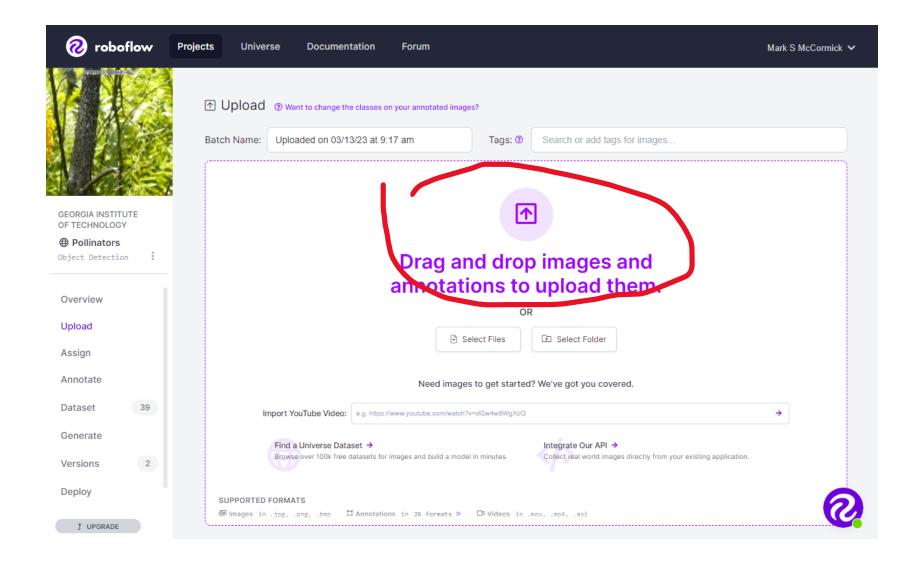
- If you've received an email invitation, create a free account at https://roboflow.com/.
- Log in and click the Pollinators project.



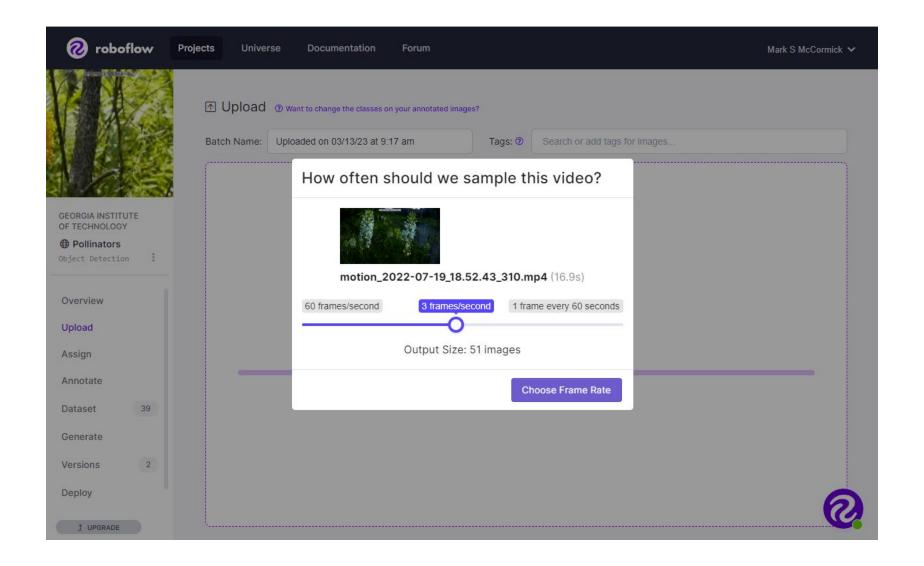
• Click on Upload on the left.



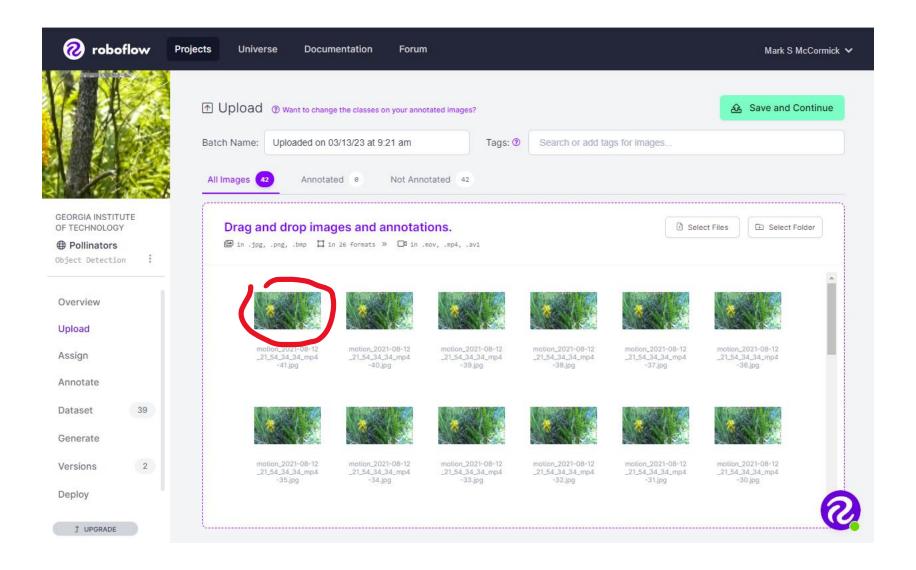
• Drag a video file onto the "Drag and drop images" area.



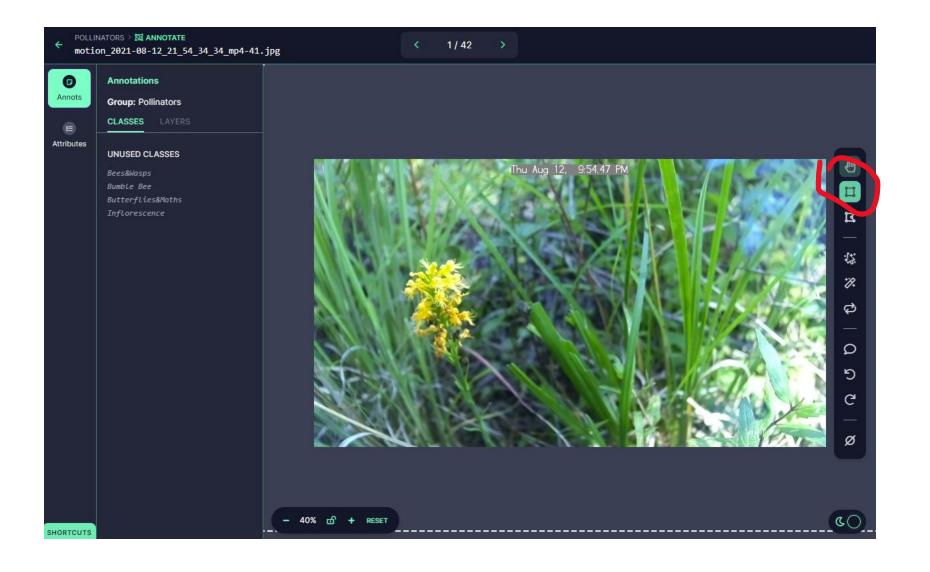
• Drag the slider to select 3 frames a second and click "Choose Frame Rate"



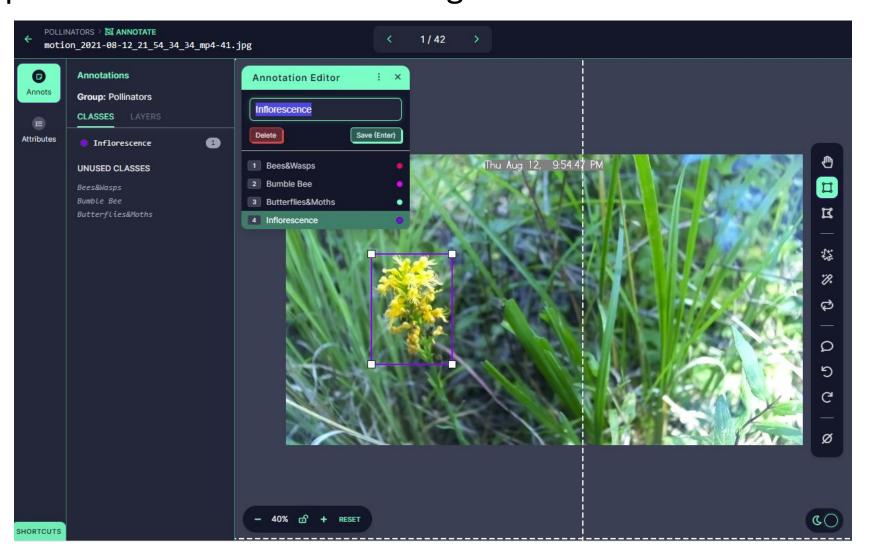
Click on the first frame to begin annotating.



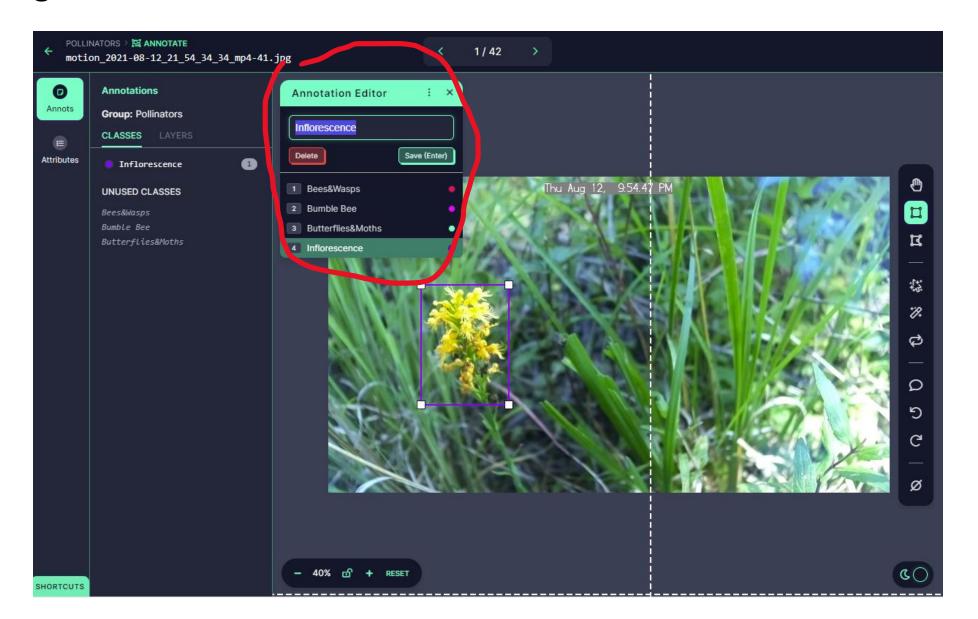
• Check that the bounding box icon is highlighted in the toolbar at right.



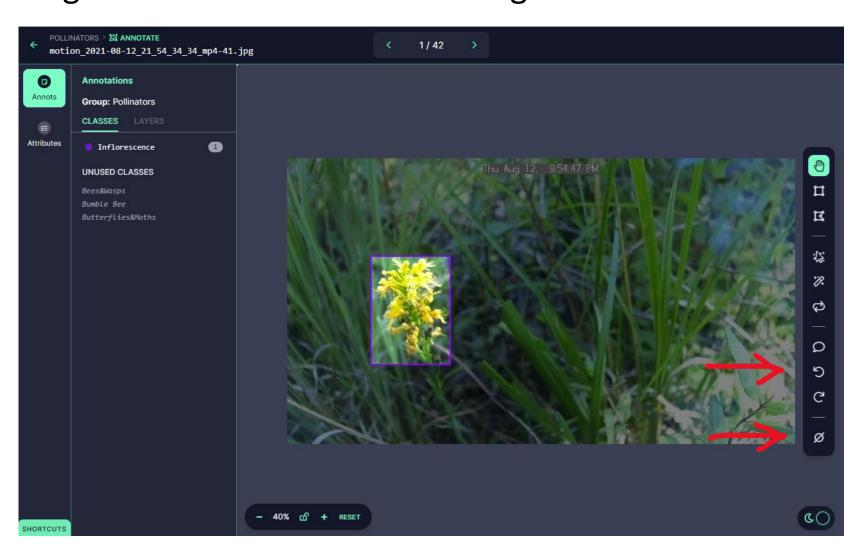
• In the first frame we want to draw a bounding box(es) around the inflorescence(s), ideally without any pollinators. Click and drag the mouse from the upper left corner to the lower right to form a box around the inflorescence.



• The Annotation Editor Window appears. Check that the right class is highlighted and click save.



• If you mess up a bounding box, you can undo it using the undo button on the right. That sometimes doesn't work. You can undo all bounding boxes in the image using the Null button at bottom right.

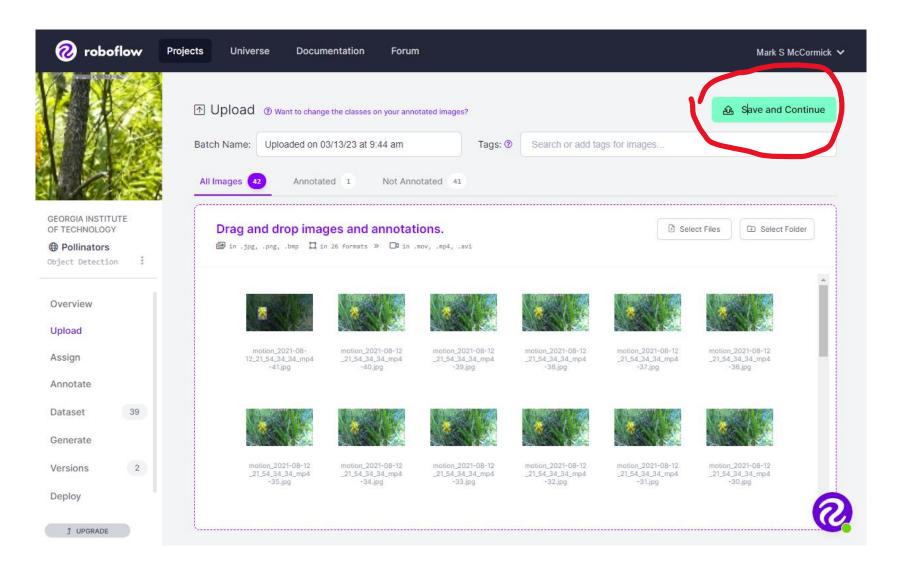


• Click the right arrow at top until you find the frames with the pollinators. We don't want to label every frame, just a select few that have the pollinator in a variety of poses, possibly both stationary and flying, both at and away from the inflorescence, and with different levels of occlusion from parts of the inflorescence. However, we don't want so much occlusion that the pollinator is not recognizable. It's best to just skip such frames. We want to draw separate boxes around both the inflorescence(s) and the pollinators. It is okay if these

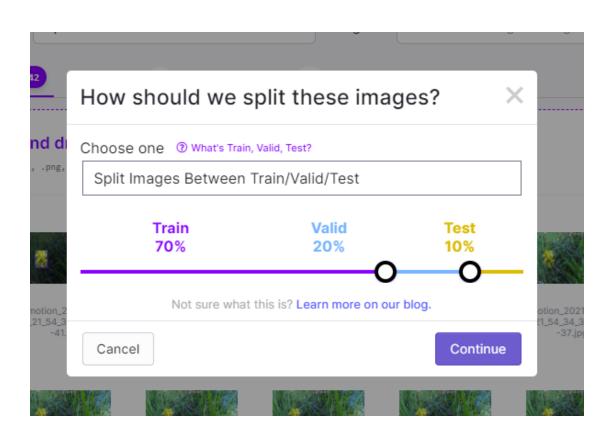
overlap.



• After you're done, click the green left arrow at top left to back out. Then click the Save and Continue button.

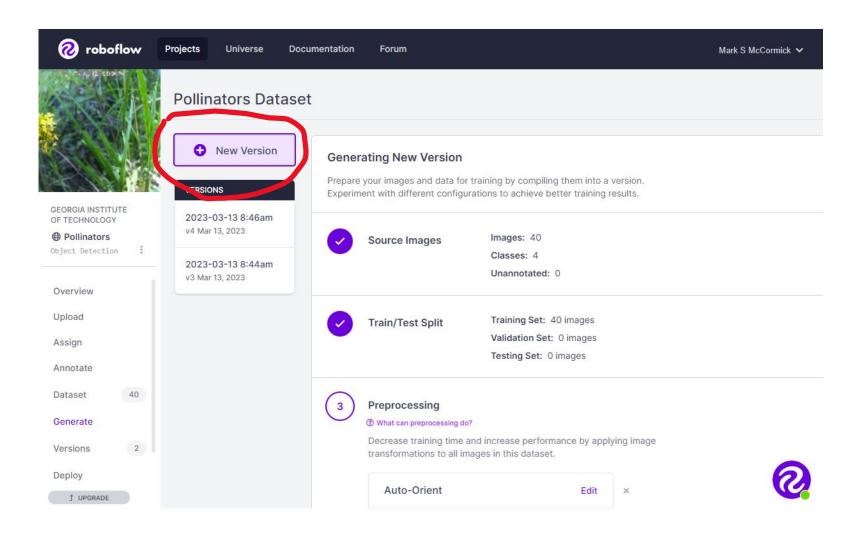


• A train/test split dialog pops up. Drag both dots to the right to make everything Train and click Continue.

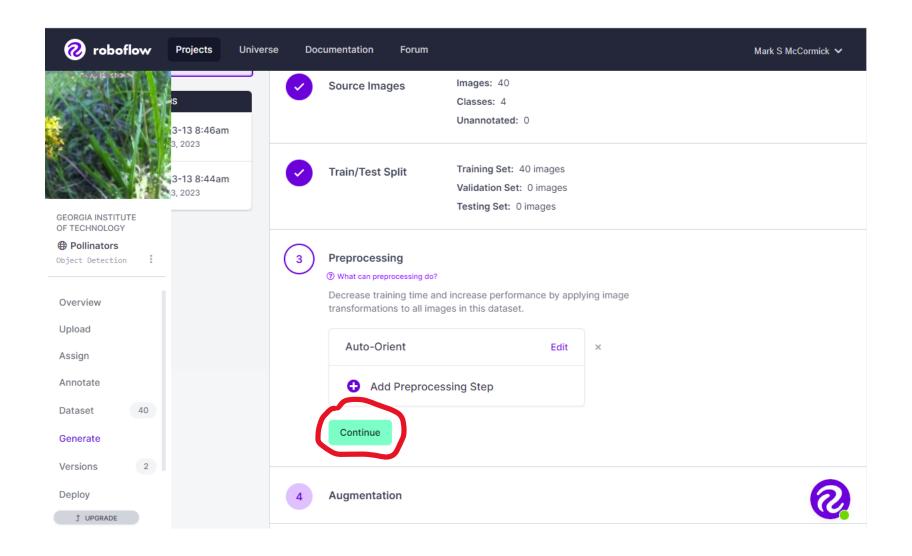


- Click Upload on the left to process another video.
- Ensure that all people processing videos deconflict so we don't get repeats, and keep track of which ones you've completed and which you haven't.

 To see what the entire, newly annotated dataset looks like, click Generate on the left and click New Version.



• Click Continue for all the options it prompts for.



• This generates a new (processed) version of the dataset. You can click on the first image and arrow right to look at the different annotated images.

