SFM Workflow 3/28/23

* Take picture of model (ideally 40+)
* Import into Metashape Pro
  + Workflow > add photos
* Align photos
  + Right click “Chunk” > Process > Align photos > Accuracy: High > Apply
* Clean-up
  + Model > Gradual Selection > Reconstruction Uncertainty > Remove uncertain points (shoot for value of 10, retain half of points here)
    - Click Apply > “X” button along top
  + Model > Gradual selection > Projection Accuracy > Remove inaccurate points (shoot for value of 2, retain half of the points that are left)
    - Click Apply > “X” button along top
  + Model > Gradual selection > Reprojection Error > Remove errors (shoot for value of .5, remove 10% or less of remaining points)
    - Click Apply> “X” button along top
  + Manually remove extraneous points
    - Click: Graphical user interface, application

      Description automatically generated (mac) > Free-form selection > Highlight points that are extraneous and click “X” to remove
* Build your dense cloud (Point Cloud)
  + Workflow > Build point cloud > Quality: High > Advanced: select “Calculate point colors” and “Calculate Point Confidence”
* Filter out the points of low confidence
  + Tools > Point Cloud > Filter based on confidence > From 0-2 > Apply
  + Free-form tool > Select all point present and delete.
    - It will look like you are deleting everything, but you aren’t. DO NOT PANIC.
* Bring back points of higher confidence
  + Tools > Point Cloud > Filter based on confidence > From 0-255 > Apply
* At this point, there are various options depending on your goal
* Build the Mesh
  + Workflow > Build mesh > Source Data: Depth Maps
* Build texture
  + Workflow > Build texture > ??