

# **Week 9 Meeting Minutes**

## **COSC426 – Chick Counting Group**

November 8, 2025

### **Monday 11/03**

On Monday, the team reviewed progress across each independent pipeline. Logan reported improvements to his walk-forward validation pipeline after incorporating JJ’s newest feature set, noting steadier performance estimates across rolling windows. Anye shared that additional RGB pixel labeling is complete and that the dataset is now sufficient to proceed with training his regression-based color classifier. The group concluded that training and validation of can be done in the color model with current chick videos.

### **Tuesday 11/04**

During the client meeting with Dr. Peter Wang, each member presented status and blockers. Anye highlighted a bottleneck in his color segmentation path that would slow the RGB counting stage; he also outlined his in-progress logic for bounding-box miscount scenarios (e.g., cluster boxes and overlaps). Jason summarized recent chick labeling work and ongoing fine-tuning of the RGB model; we decided he should pause additional labeling and instead focus on evaluating his current models on video data to quantify accuracy changes. Logan presented performance comparisons across three configurations from his validation pipeline: (i) the initial baseline features, (ii) JJ’s new “yellow” feature set, and (iii) the combined set, with early indications that the combined features improve stability. JJ shared progress and issues in testing the thermal BBV model; results were confounded by inconsistent ground-truth counts among thermal clips and weaker YOLO performance on certain thermal videos, which JJ will follow up on by double-checking the ground-truth counts for the affected thermal clips and investigating the YOLO failures on those videos.

### **Wednesday 11/05**

On Wednesday, no major new results were reported. The team discussed a concrete plan to integrate Jason into each member’s count-processing pipeline so he can run end-to-end evaluations independently. After consulting with Dr. Sophie Wang, we agreed to prioritize (1) onboarding Jason to the current pipelines (RGB color classifier path, walk-forward validation, and thermal BBV tests), and (2) defining the next evaluation passes and diagnostics to prepare for the following week’s integration and review.