

# Weekly Progress Report

Dec 6th - Dec 10th, 2021

Presented by Yannis (Yiming) He 84189287

Noah's Ark | Autonomous Driving Lab  
LiDAR Domain Adaptation

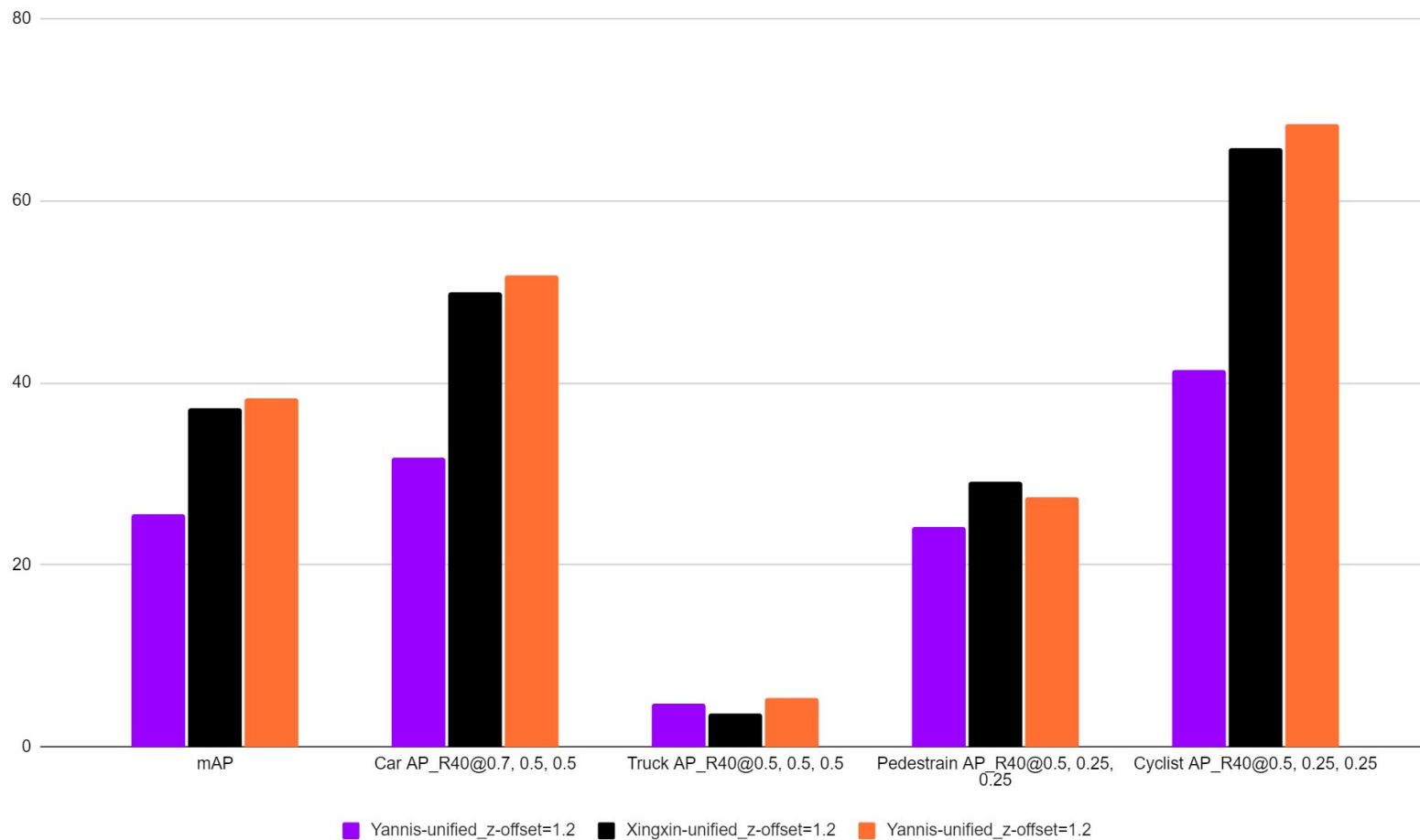
Manager: Bingbing Liu 00435285  
Supervisor: Eduardo Corral Soto 00407762



## Weekly Summary

- **Done:**
  - Reproduced the results from Xingxin's once\_kitti-format\_z-offset=1.2
- **In Progress:**
  - ➡ - Compare performance for once-z\_offset=1.2 vs 1.25
  - Generate ONCE info files for **densified** pointcloud
- **Recent Goals:**
  - Verifying the effectiveness of densified pointcloud on ONCE
  - Implement densification on P40 (if densification is working)
- **TODO:**
  - P40 oracle training on undensified data (to make sure it's working)
  - Train p40 with augmentation (only insertion of GT object)
    - to understand the false positive/negative
  - Experiment on p40 densified pointcloud (baseline, ROI, z\_offset, etc)

ONCE\_kitti-format\_wo\_int -> M2



## Work Logs

➡ Dec 6 (Monday)

- Reproduced Xingxin's result on “once\_kitti-format\_offset1.2”
- TODO:
  - Generate info files for “once\_not-densified\_kitti-format\_offset1.25”
  - Train on “once\_not-densified\_kitti-format\_offset1.25” and compare performance with offset 1.2
    - Test on m2 to compare
  - $X = \max(\text{performance of offset}=1.2, \text{performance of offset}=1.25)$
  - Prepare dataset from
    - “once\_densified\_once-format\_wo\_info” → “once\_densified\_kitti-format\_offset $X$ \_w\_info”
  - Train on the “once\_densified\_kitti-format\_offset $X$ ”
    - Test on m2

# End of December 6th, Weekly Report