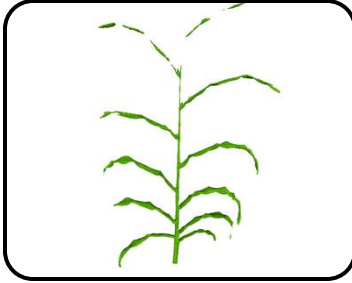




## 2D RGB Imaging

- 5 side views + 1 top view
- 366 plants
- 236 genotypes from SAP
- 3 timepoints



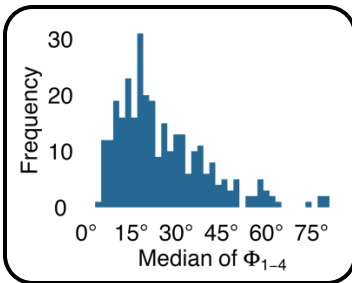
## 3D Reconstruction

- Image segmentation
- Voxel carving



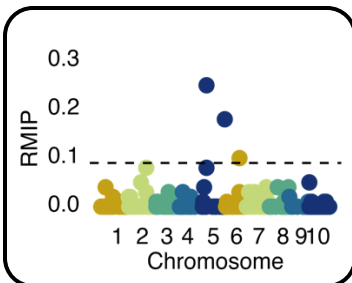
## Skeletonization

- Thin voxels classified as leaves or stem
- Extract leaf position



## Data Processing

- Calculate difference of the angle between leaves from 180°
- Remove extreme values
- Summarize across timepoints



## Quantitative Genetic Analysis

- Estimate heritability
- Resampling FarmCPU GWAS