

## SRC/PCC/MI/MAE (actual vs. predicted) for baselines and combined model

### Baselines:

**Mean:** The prediction for each food is the mean of the training lactose values

**Median All:** The prediction for each food is the median of the training lactose values

**Median Nonzero:** The prediction for each food is the median of the *non-zero* training lactose values

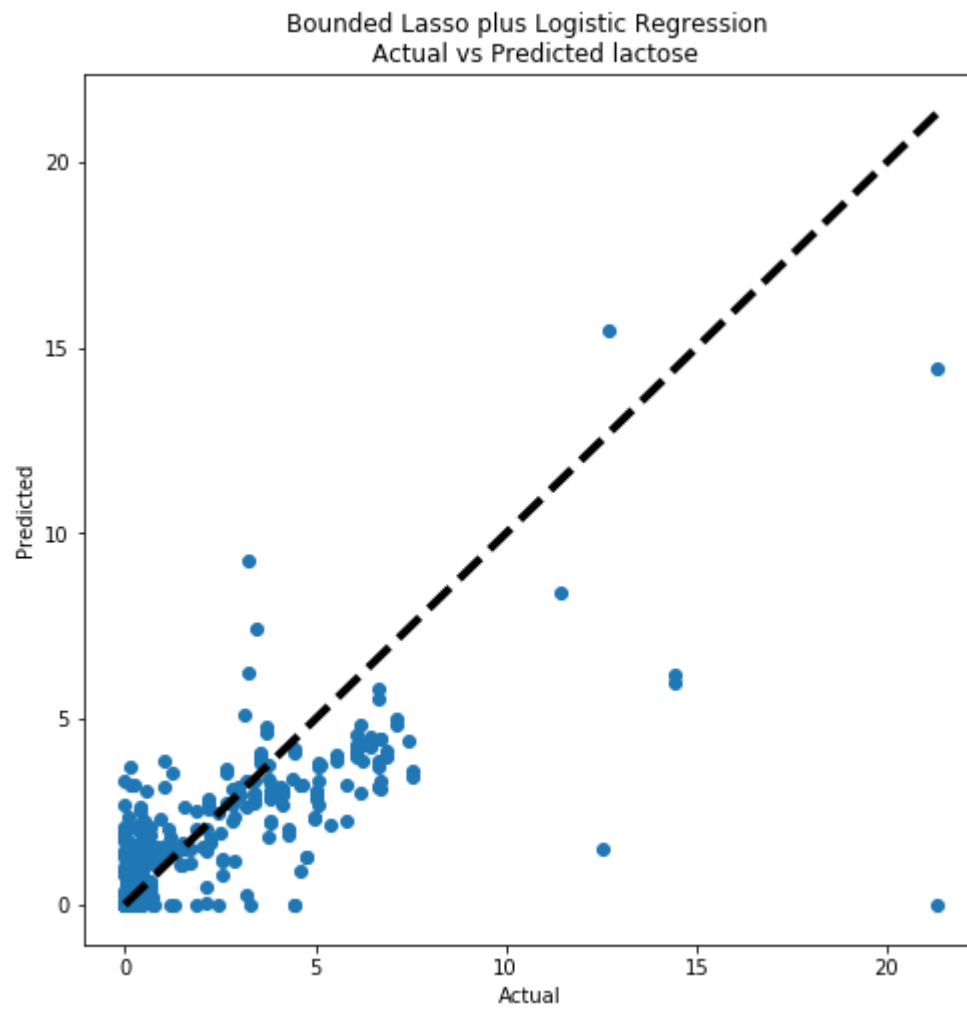
**Perfect Clasif., Mean Regr.:** This classifier predicts 0 where the true value is 0, or the mean of the training lactose values where the true value is nonzero

### Model:

**Bounded Lasso + LogReg:** In the case that the classifier predicts 0 lactose, the overall model output is 0. In the case that the classifier predicts non-zero, the output from the bounded lasso regressor is used.

|                             | r2    | SRC  | PCC  | MI   | MAE  |
|-----------------------------|-------|------|------|------|------|
| Dummy Mean                  | -0.02 | 0    | -0   | -0   | 2.12 |
| Dummy Median All            | -0.29 | 0    | -0   | -0   | 1.83 |
| Dummy Median Nonzero        | -0.08 | 0    | -0   | -0   | 1.94 |
| Perfect Clasif., Mean Regr. | 0.12  | 0.73 | 0.4  | 0.53 | 1.68 |
| Bounded Lasso + LogReg      | 0.53  | 0.78 | 0.76 | 2.71 | 1.05 |

## Actual vs. predicted scatter plot for combined model



# Distribution of the lactose values

