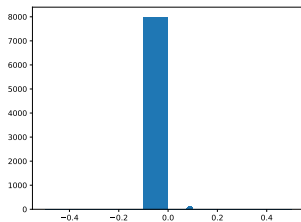
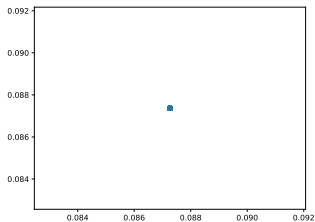


Report on KOTO EMCal Study

Junlee Kim

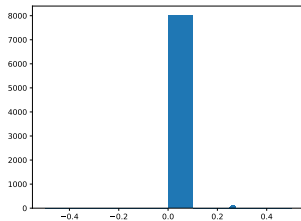
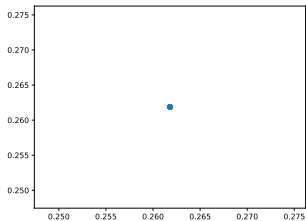
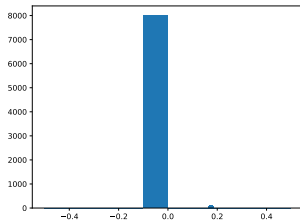
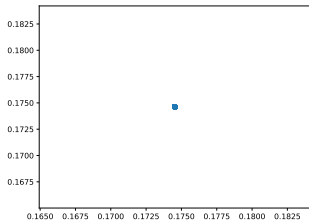
December 1, 2020

Closure test

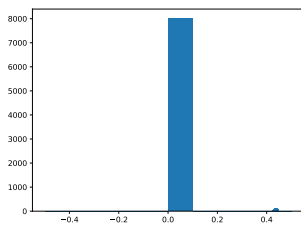
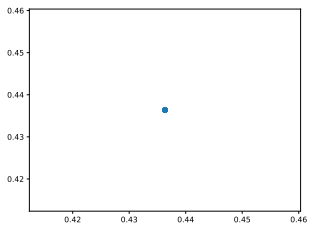
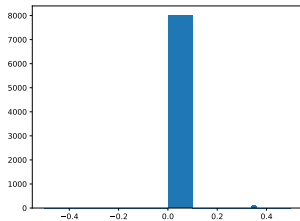
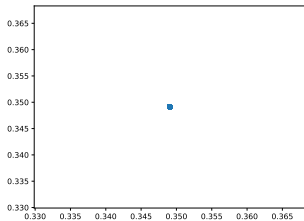


- ▶ Generate events with specific incident polar angle (10k)
- ▶ 2k events for training and 8k events for test.
- ▶ Compare prediction with true value.
 - ▶ LEFT : scatter plot with x-axis as true and y-axis as prediction
 - ▶ RIGHT : true - prediction
- ▶ Incident angle = (5, 10, 15, 20, 25, 30)

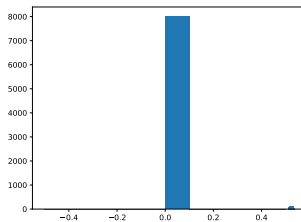
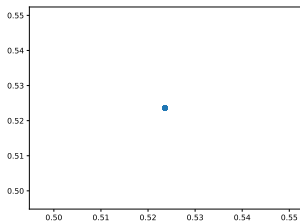
Closure test



Closure test



Closure test



Things to do

- ▶ Understand inputs for `XGBRegressor`
- ▶ Random generation of initial gamma
- ▶ Regression test output
- ▶ Validation check?