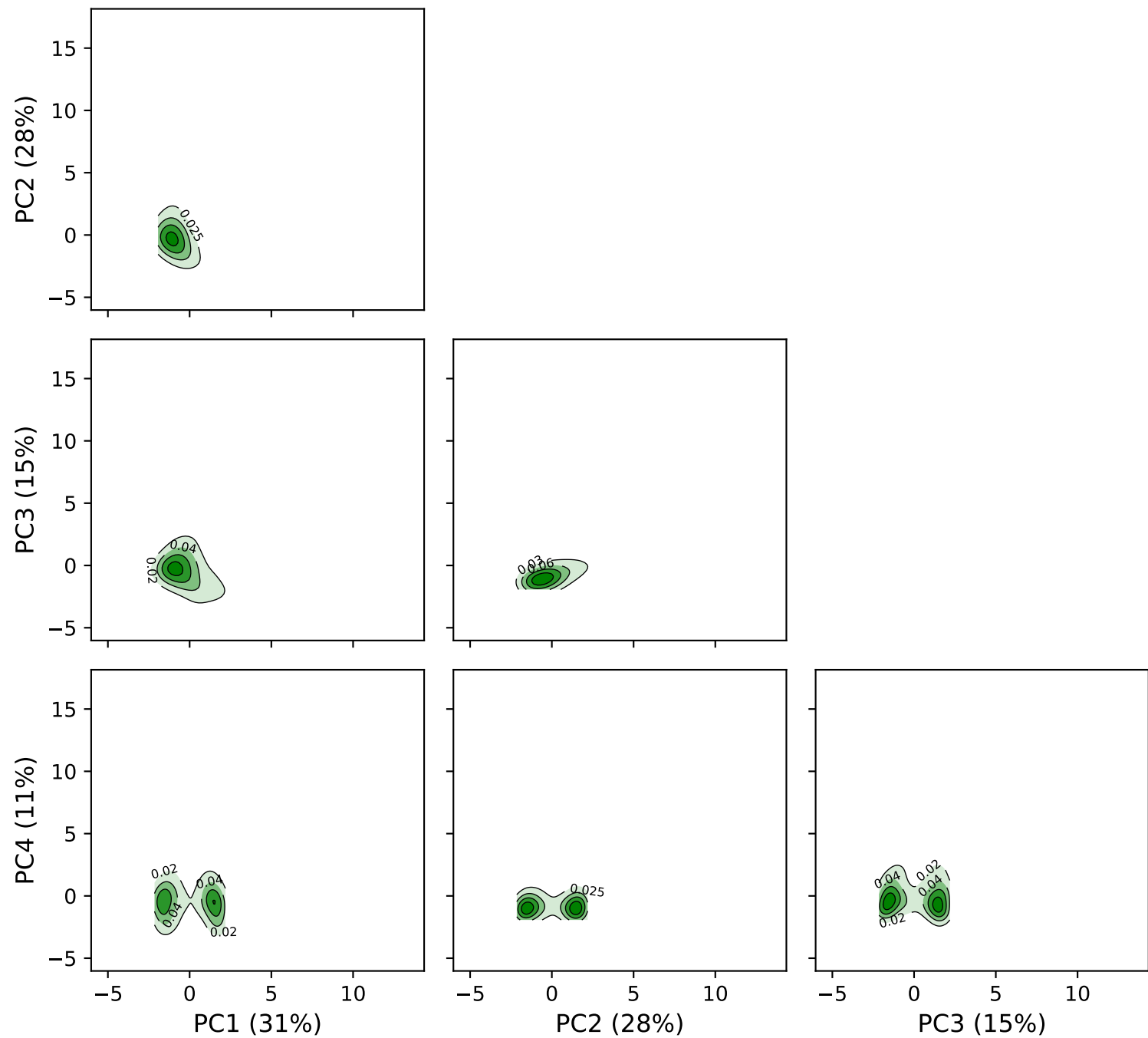
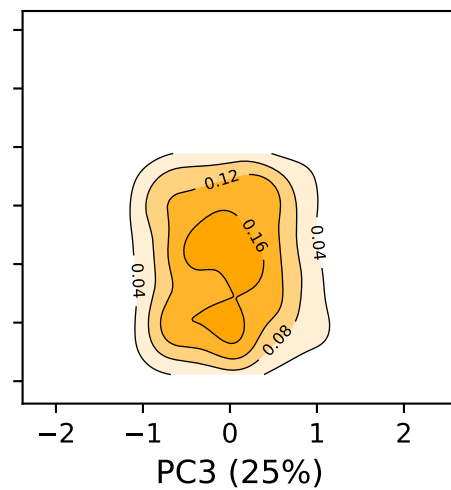
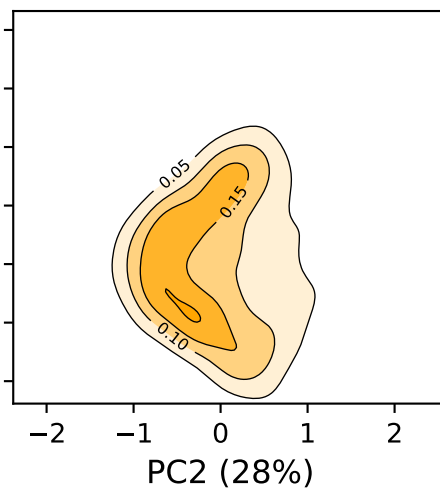
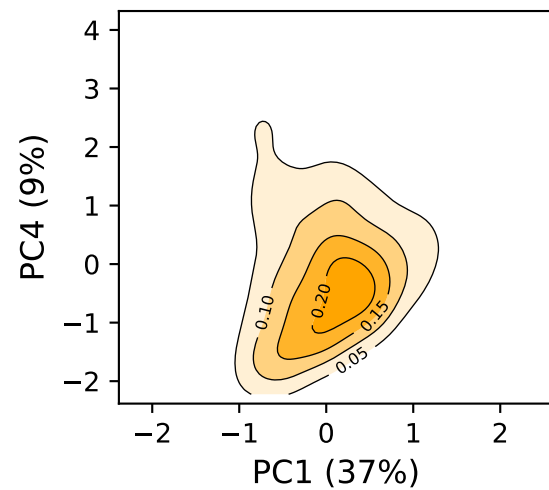
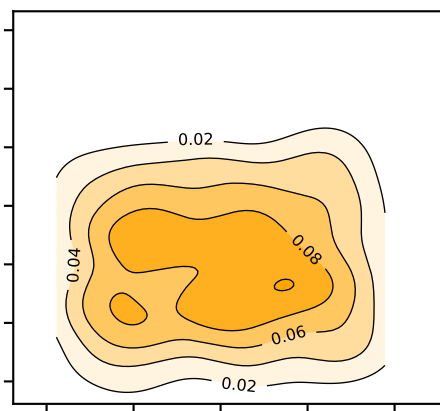
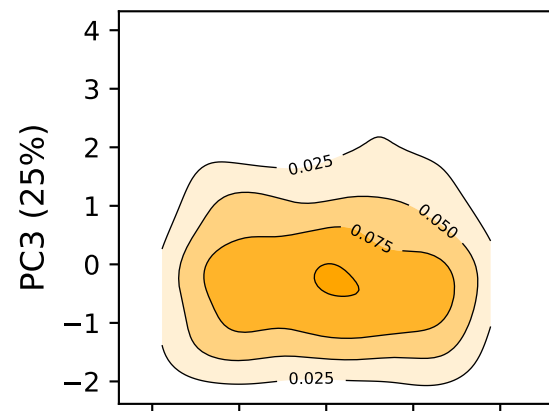
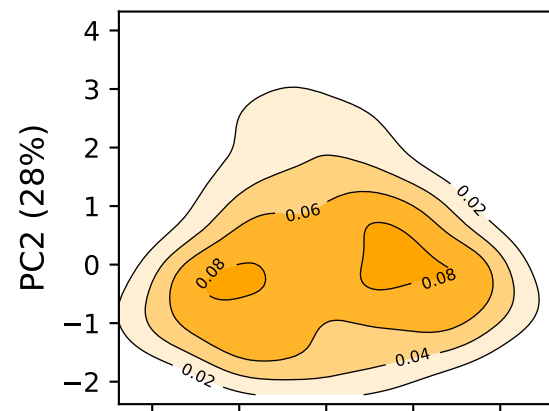


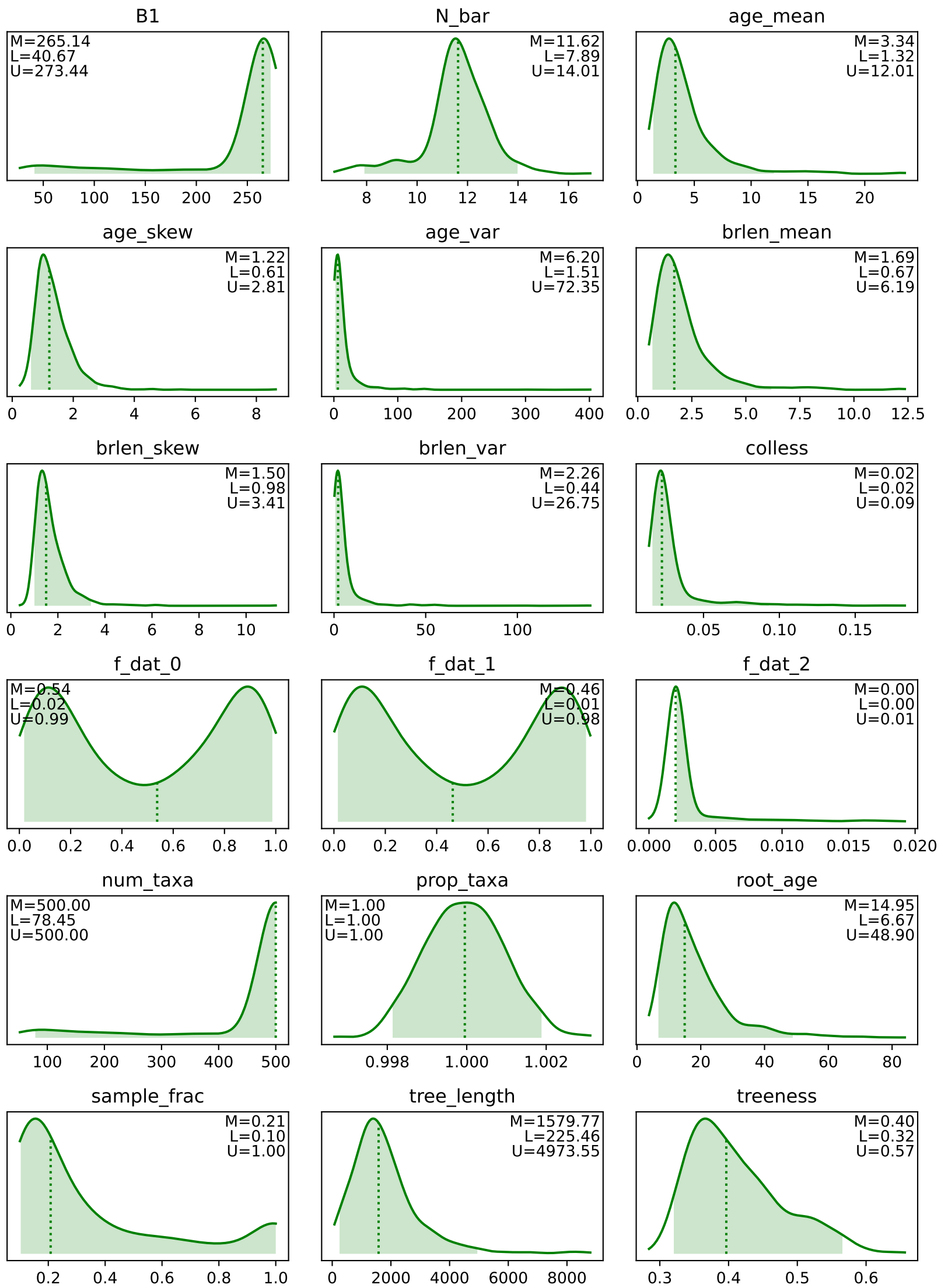
# PCA: Aux. data



# PCA: Labels

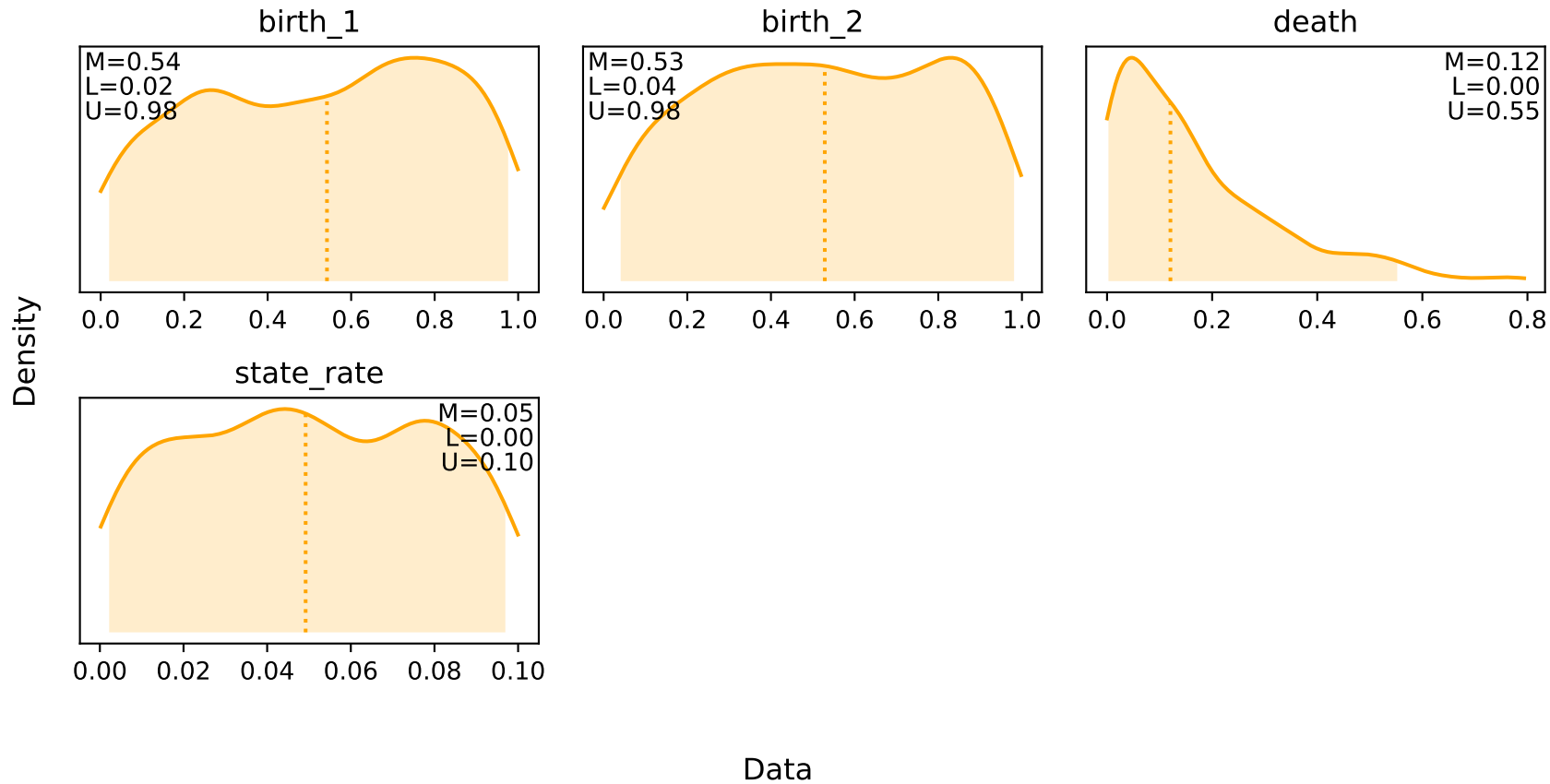


# Histogram: Aux. data

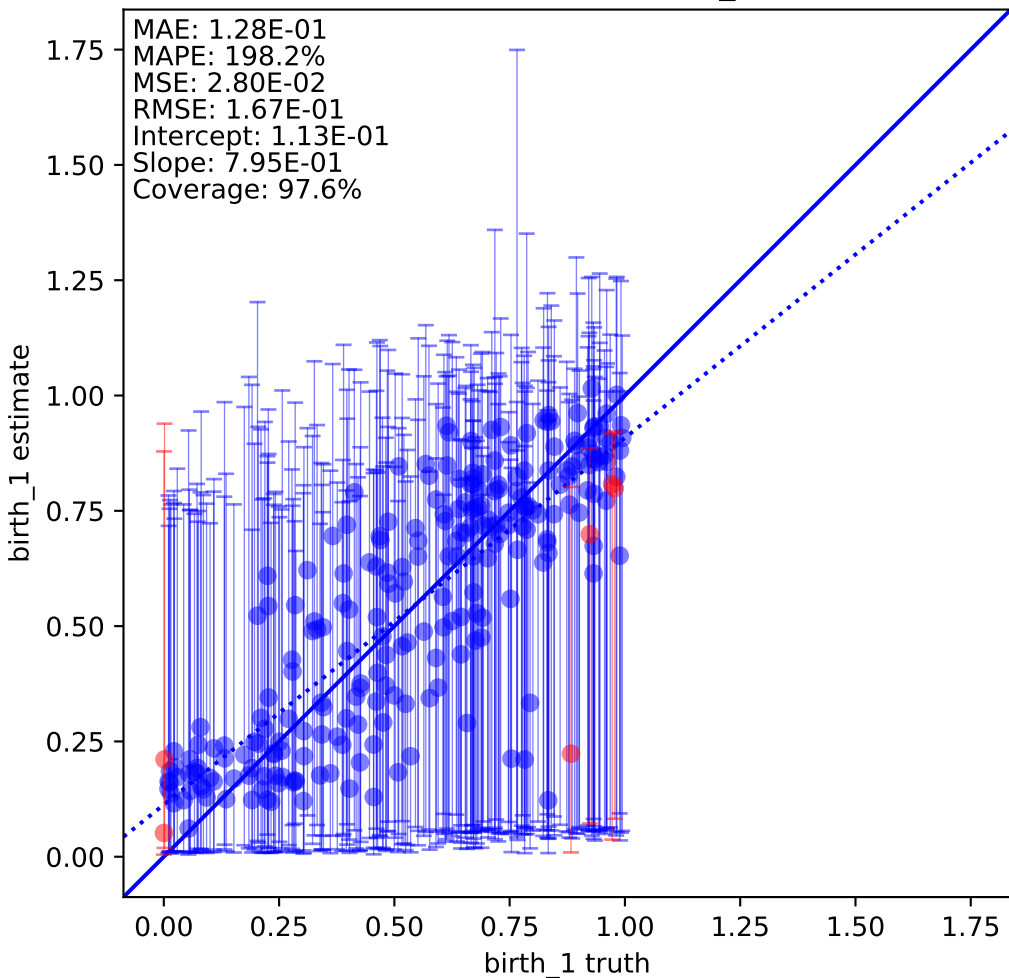


Data

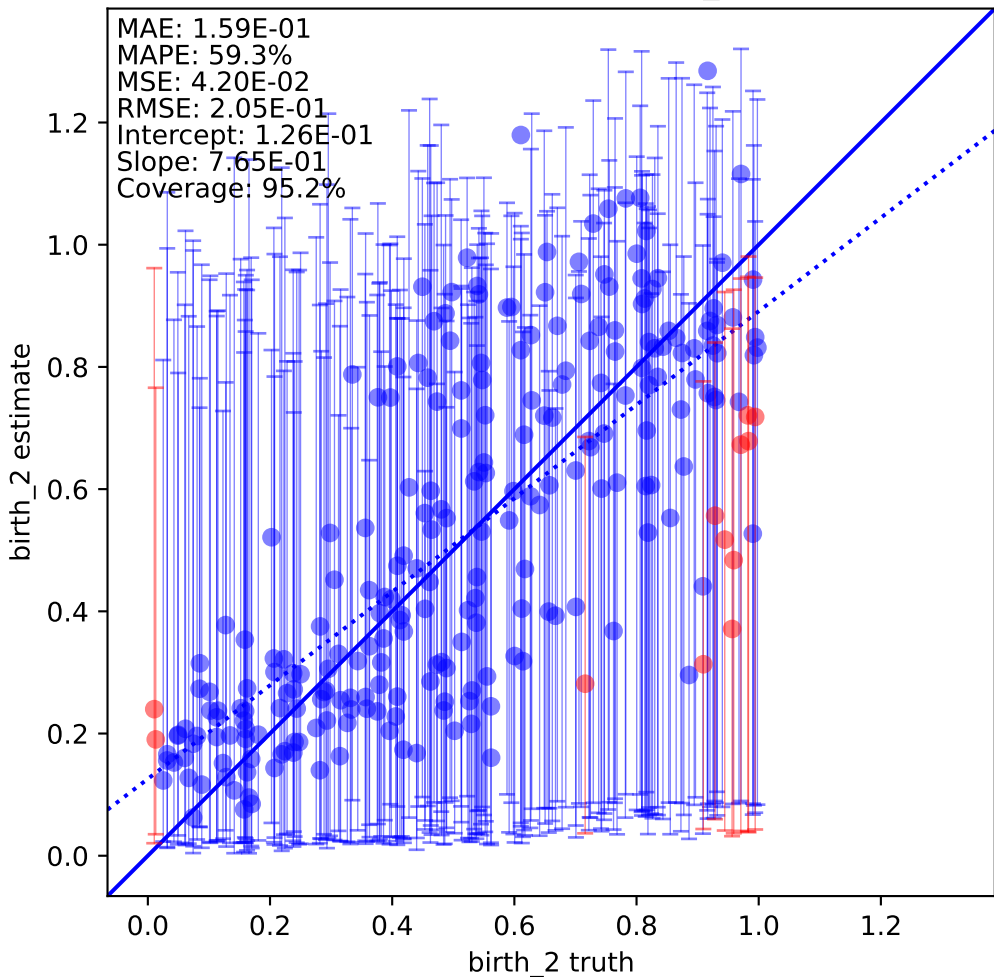
## Histogram: Labels



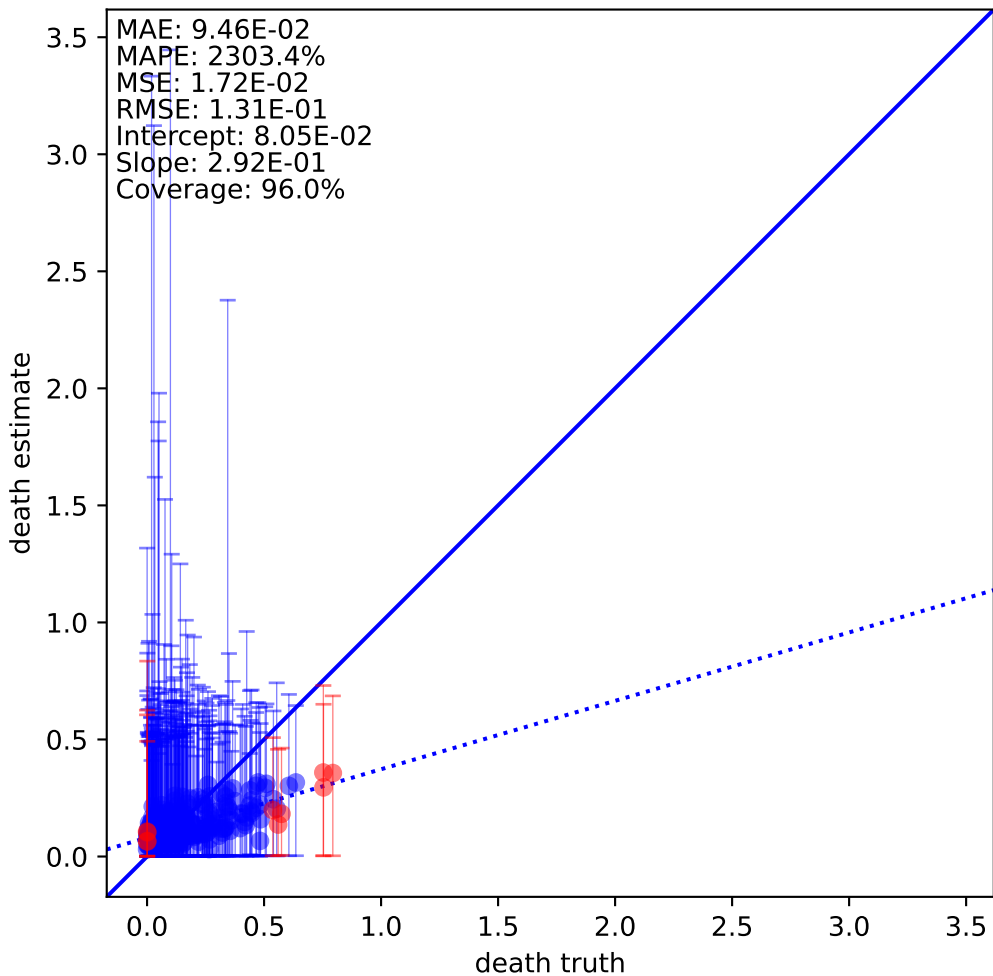
Train estimates: birth\_1



Train estimates: birth\_2



Train estimates: death



Train estimates: state\_rate

MAE: 2.15E-02  
MAPE: 155.2%  
MSE: 6.51E-04  
RMSE: 2.55E-02  
Intercept: 2.91E-02  
Slope: 2.54E-01  
Coverage: 95.2%

state\_rate estimate

0.12  
0.10  
0.08  
0.06  
0.04  
0.02  
0.00

0.00

0.02

0.04

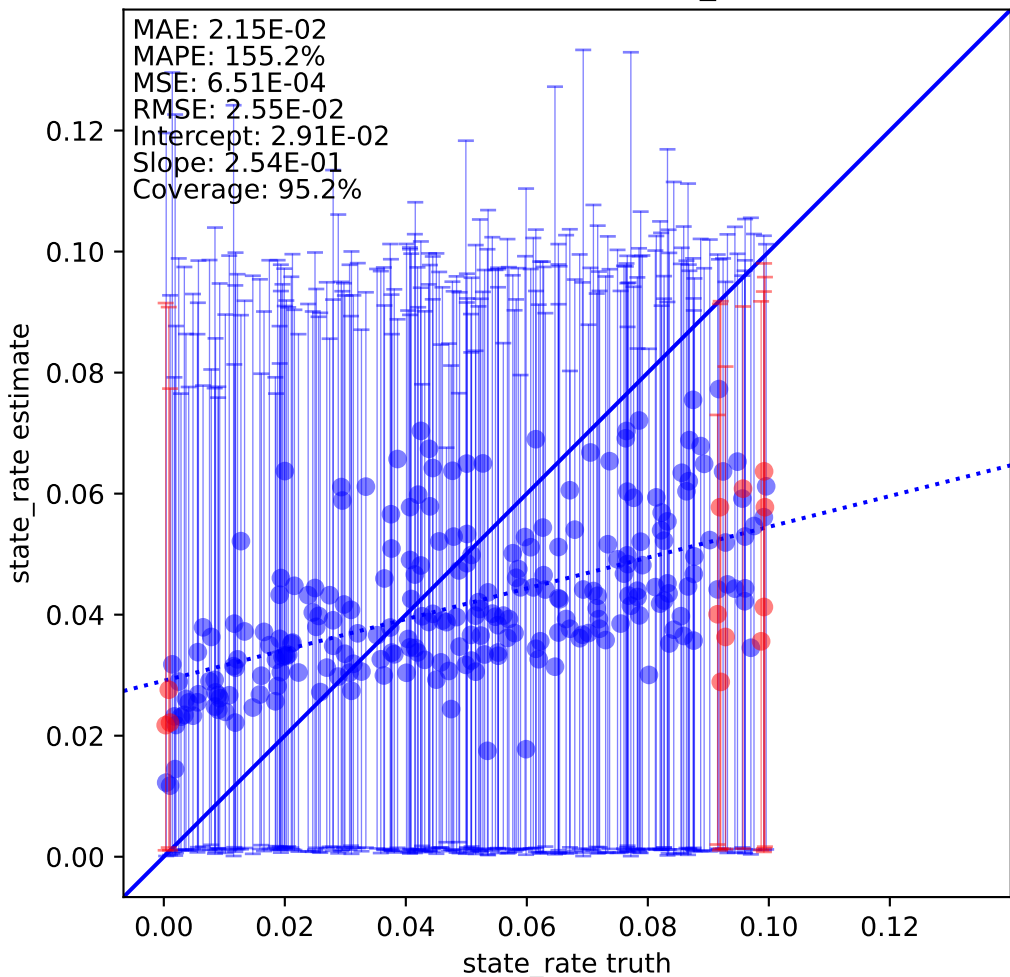
0.06

0.08

0.10

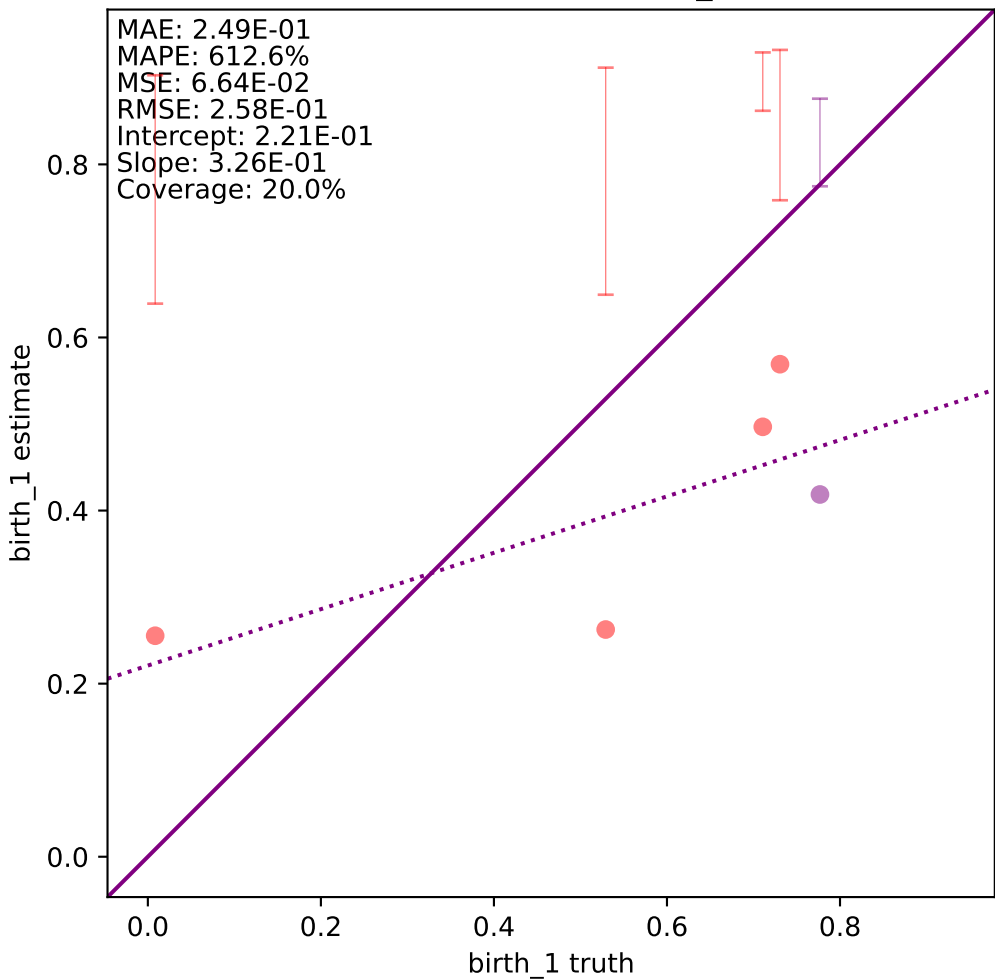
0.12

state\_rate truth

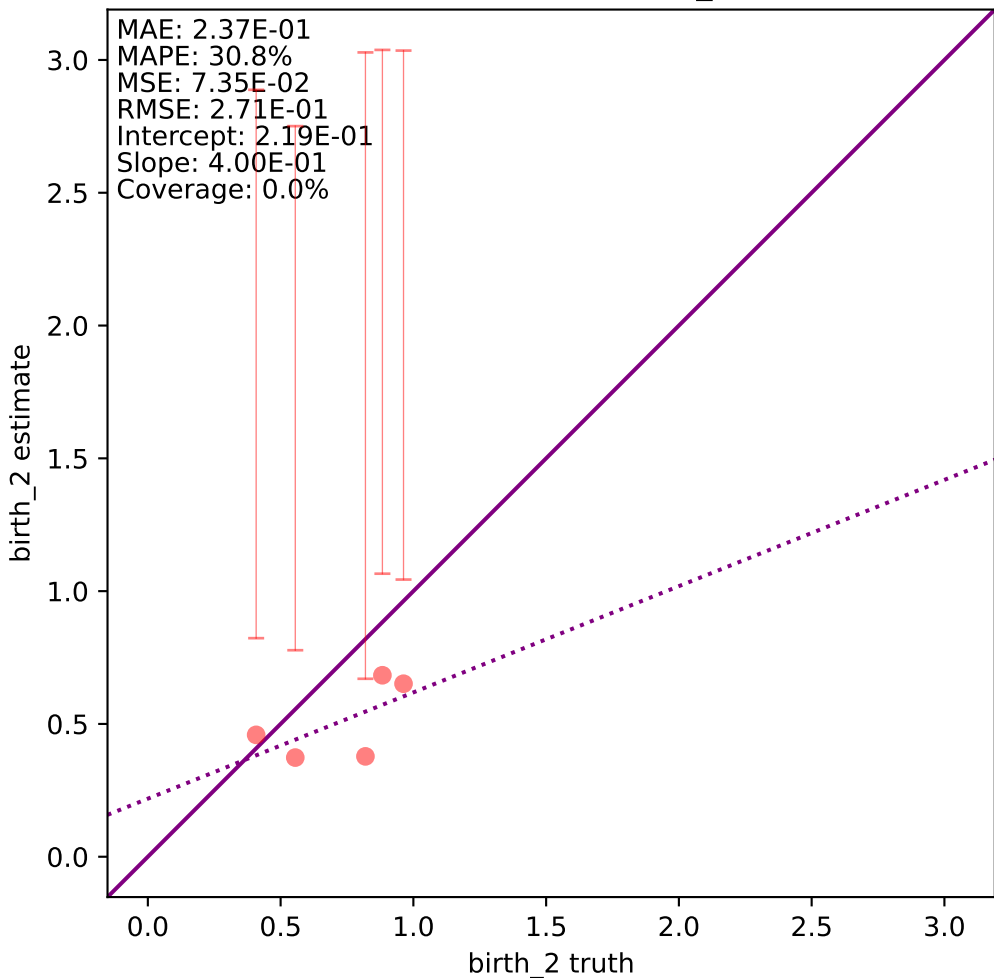




Test estimates: birth\_1



# Test estimates: birth\_2

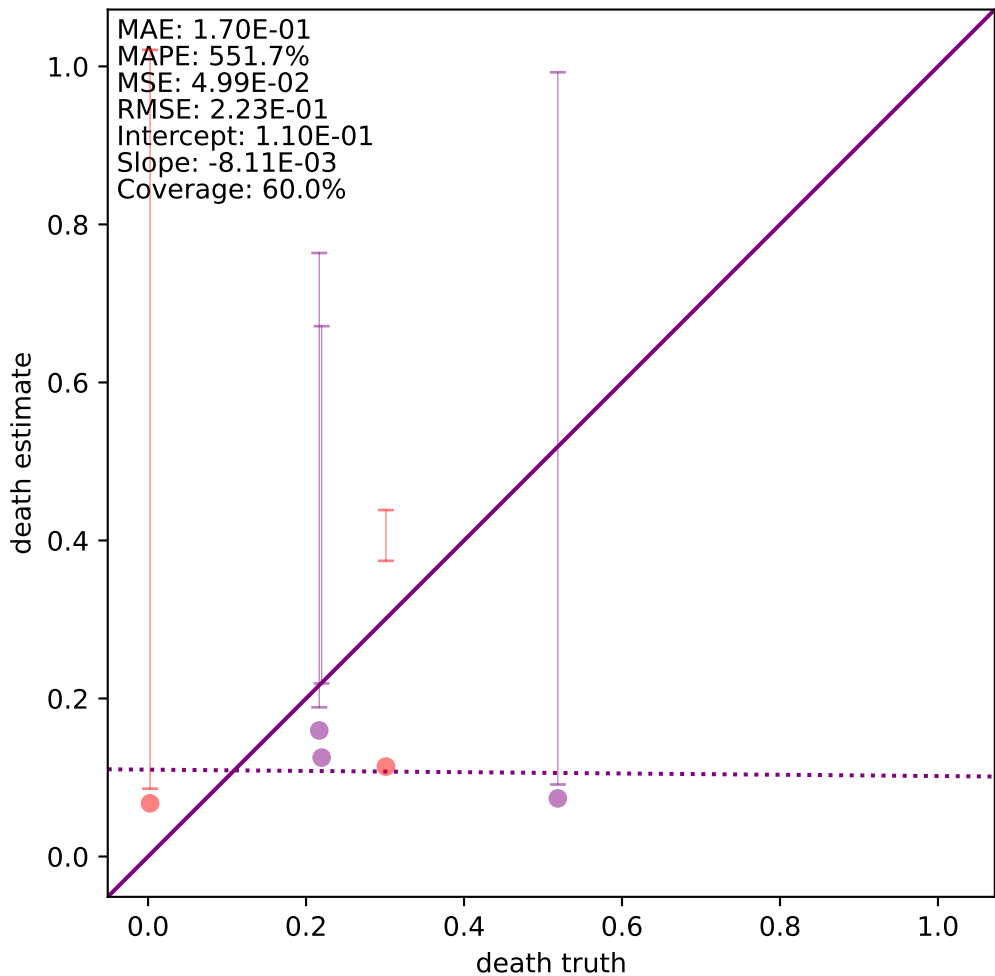


# Test estimates: death

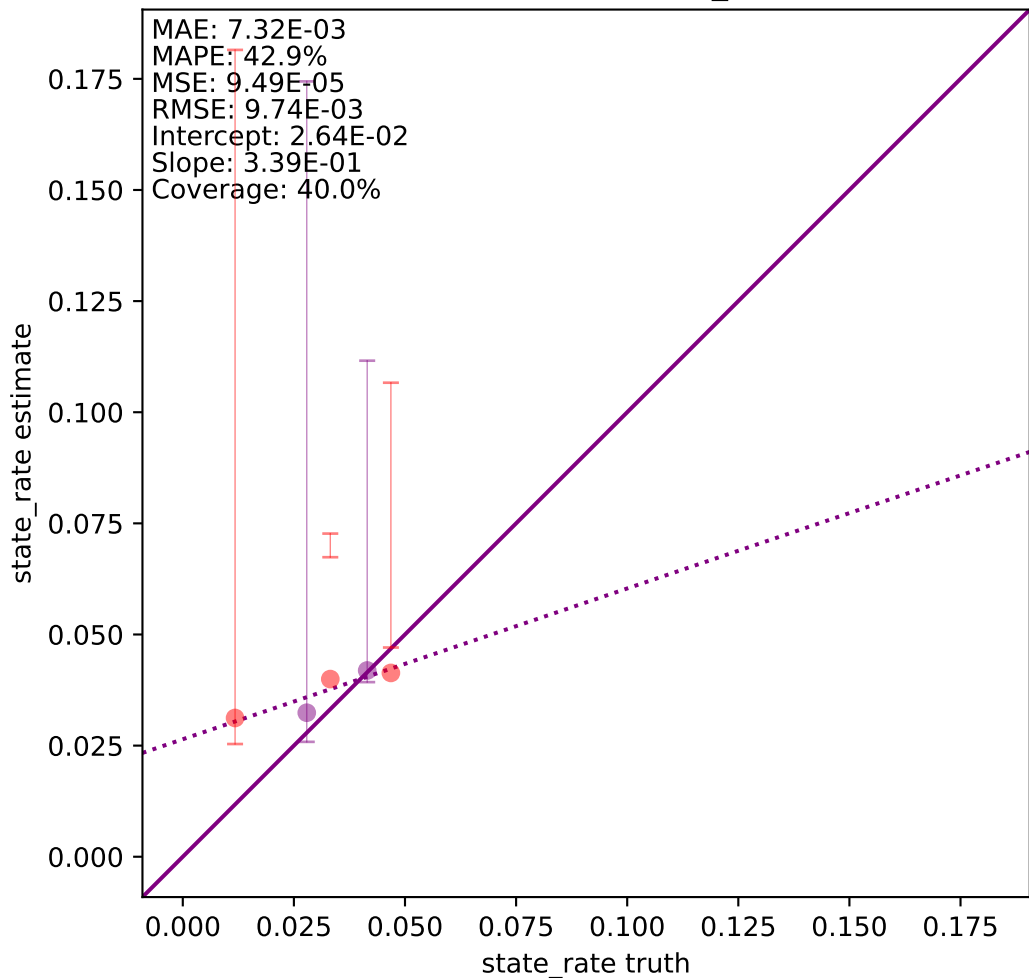
MAE: 1.70E-01  
MAPE: 551.7%  
MSE: 4.99E-02  
RMSE: 2.23E-01  
Intercept: 1.10E-01  
Slope: -8.11E-03  
Coverage: 60.0%

death estimate

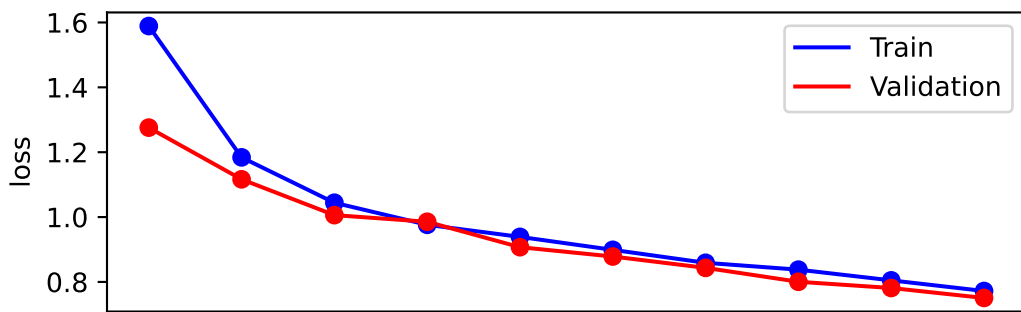
death truth



Test estimates: state\_rate



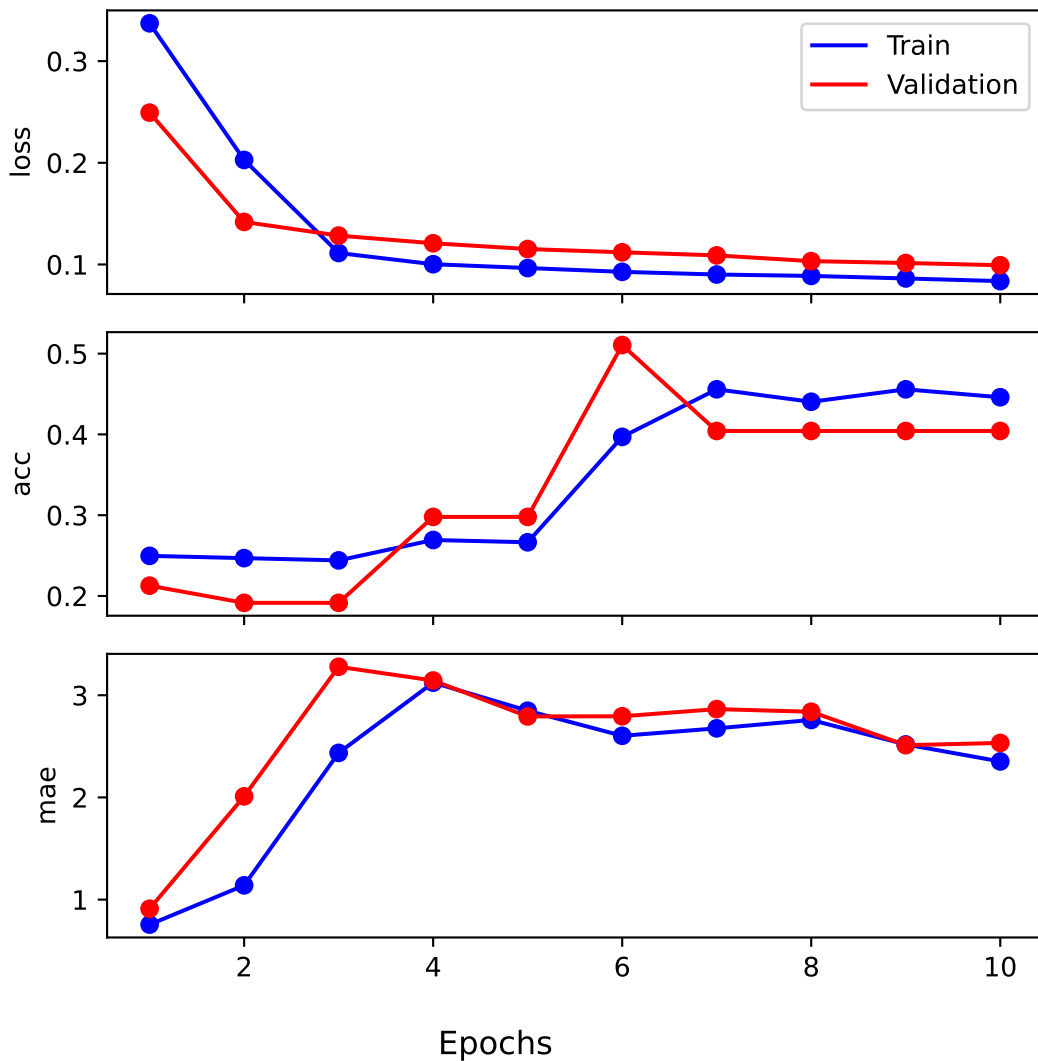
Training history: entire network



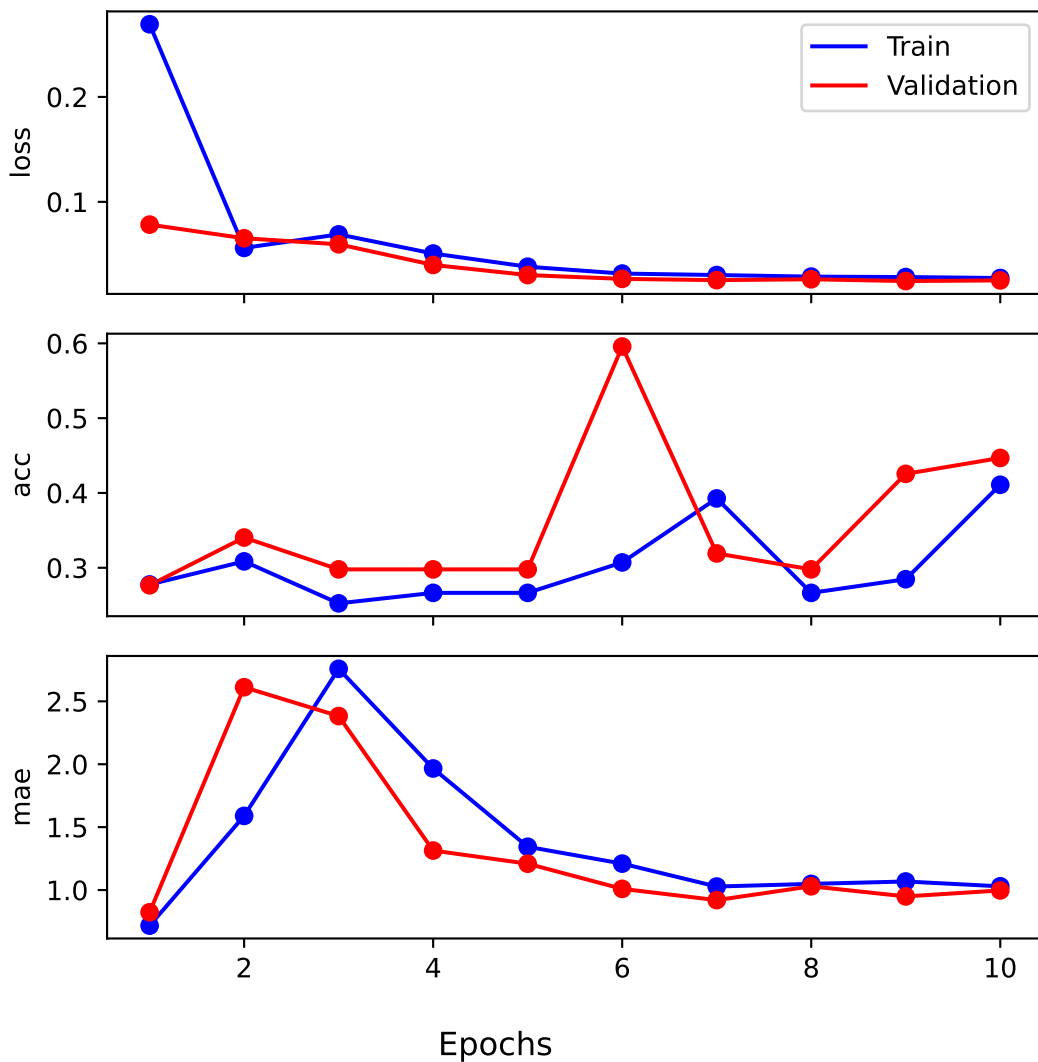
Metrics

Epochs

Training history: param\_lower



Training history: param\_upper



Training history: param\_value

