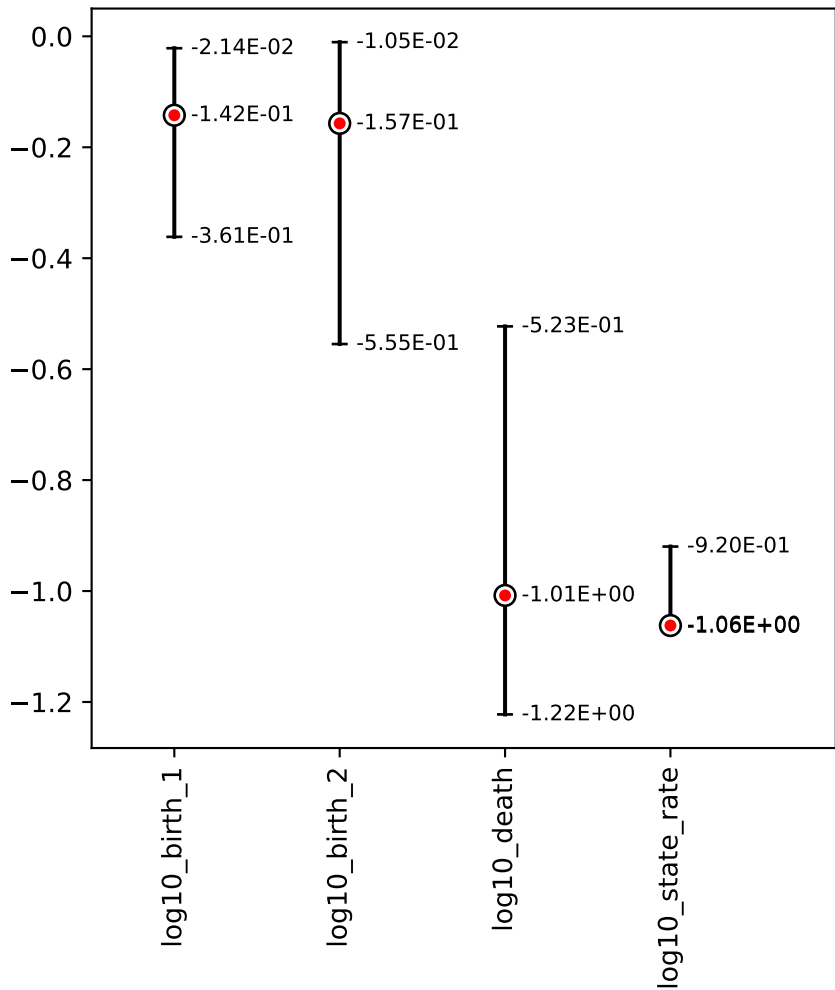
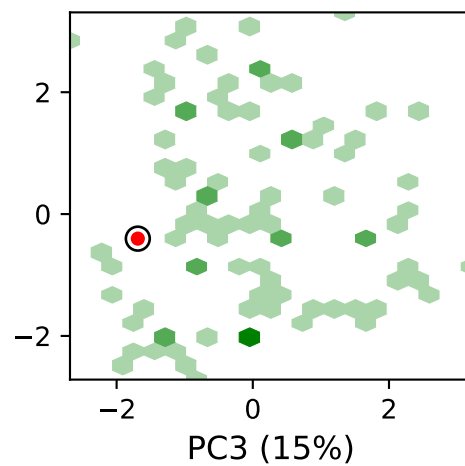
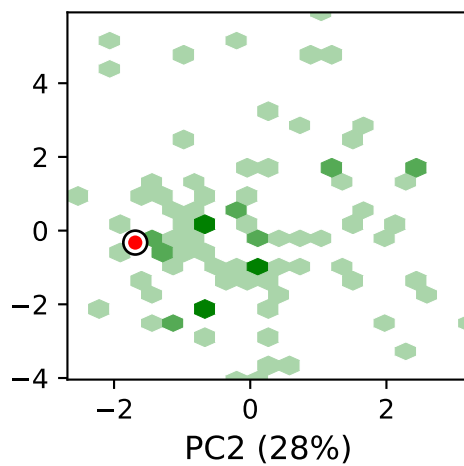
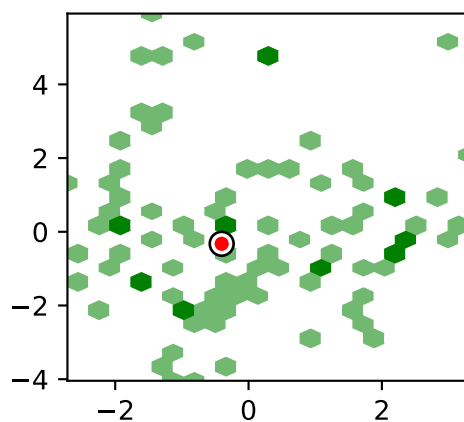
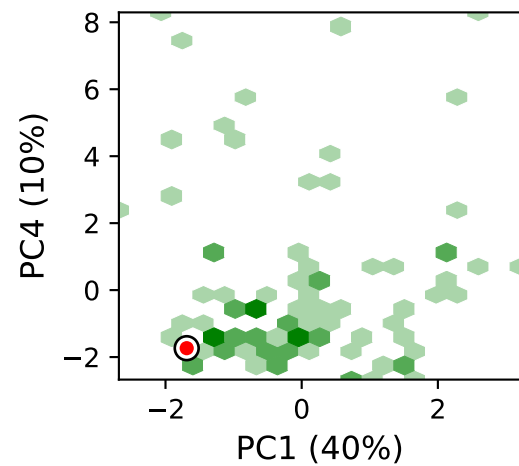
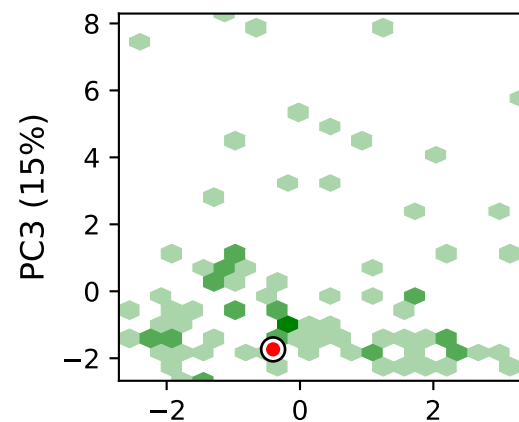
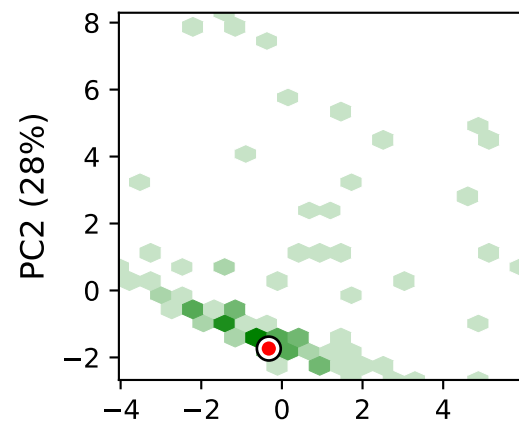


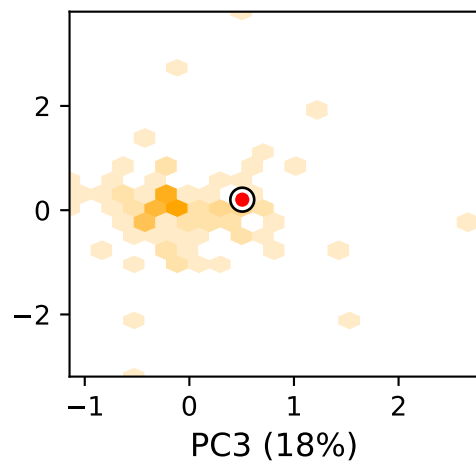
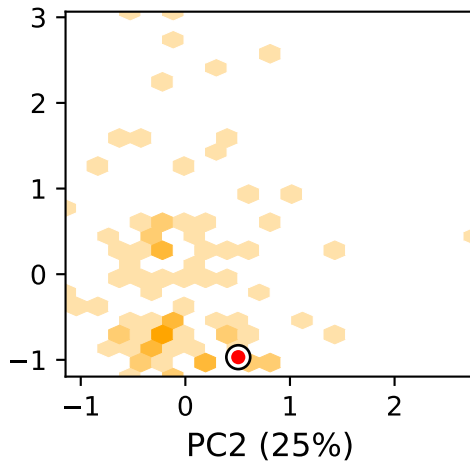
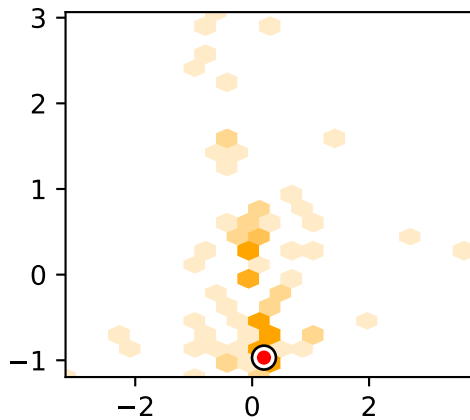
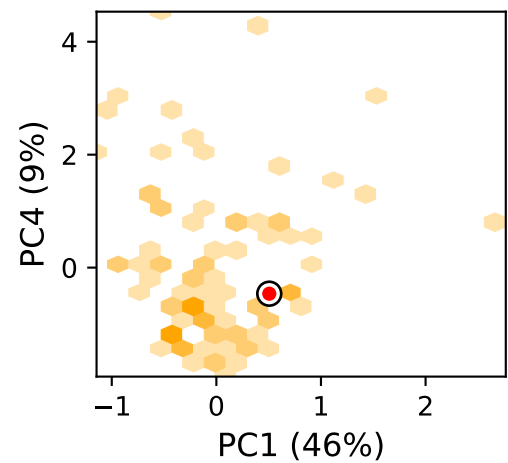
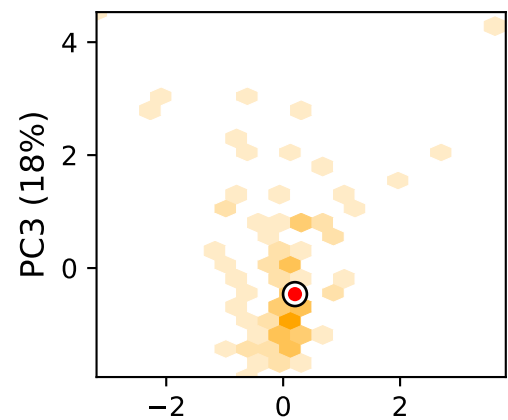
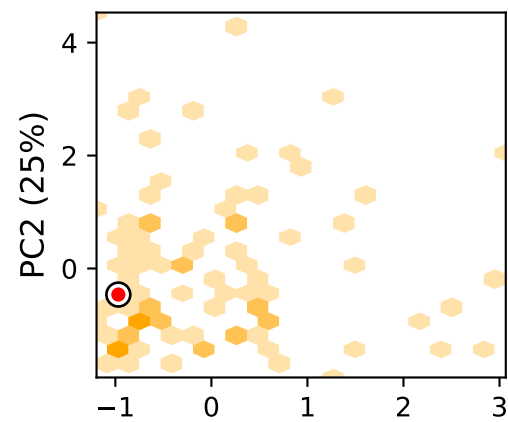
# Estimate: out.empirical.0



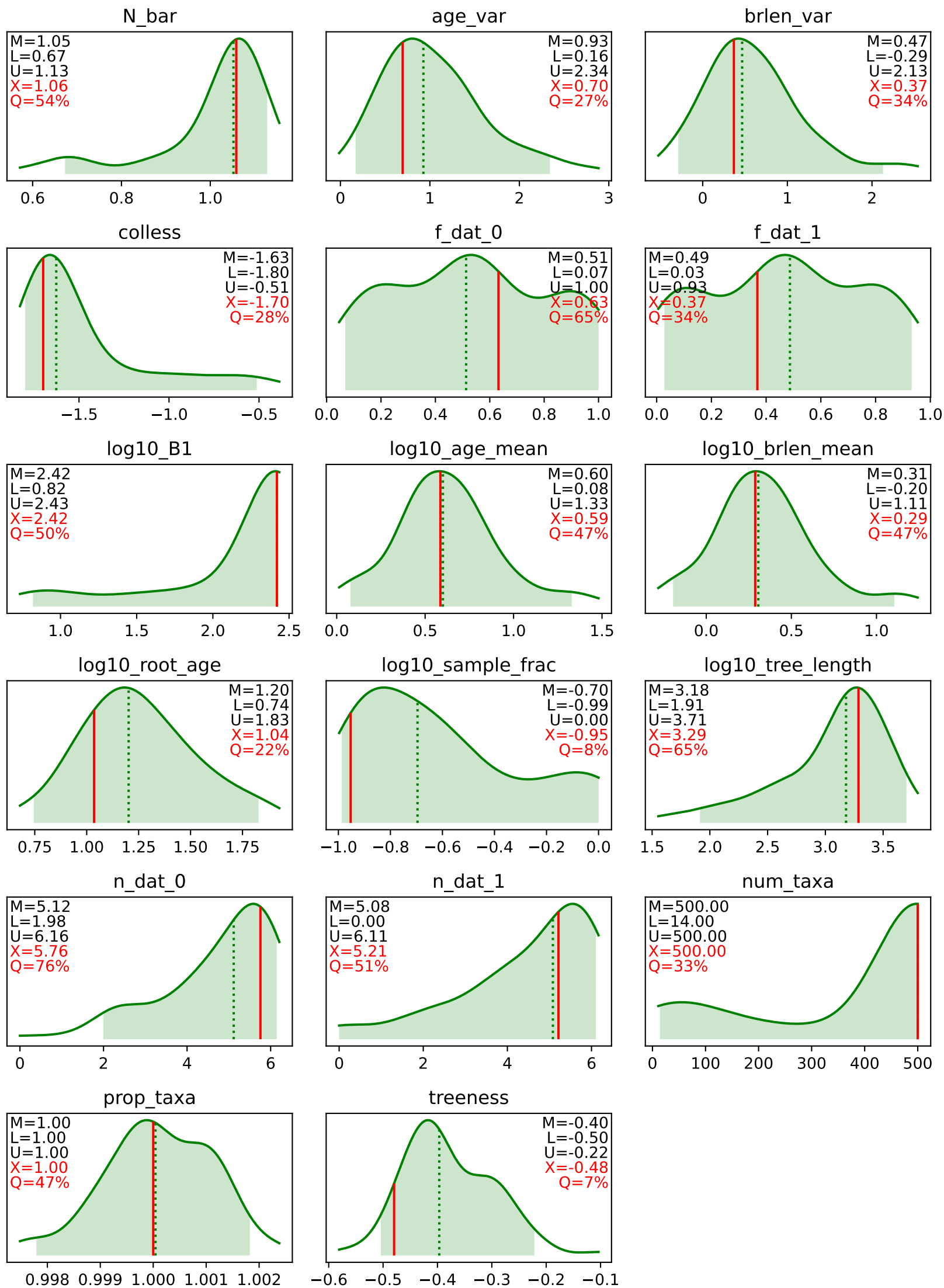
PCA: training aux. data



PCA: training labels



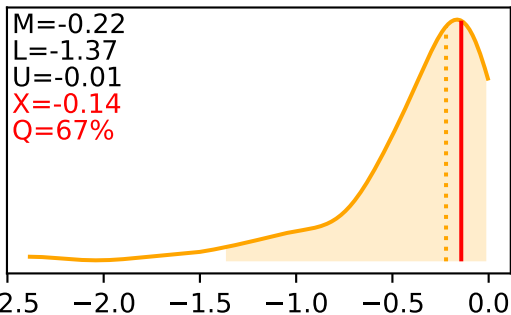
# Density: training aux. data



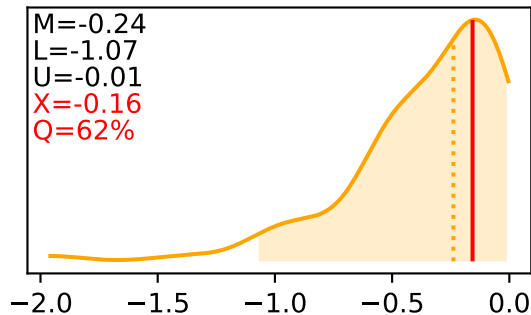
Data

## Density: training labels

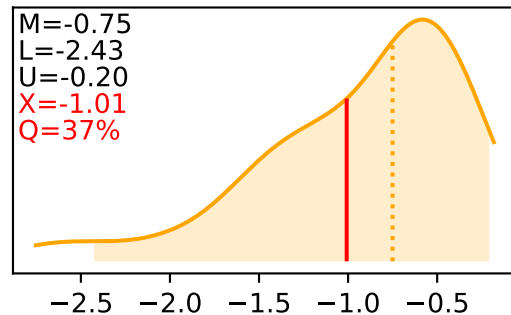
log10\_birth\_1



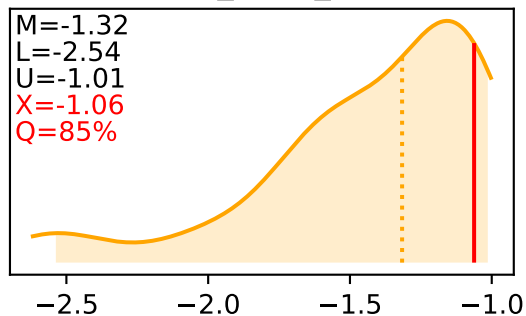
log10\_birth\_2



log10\_death

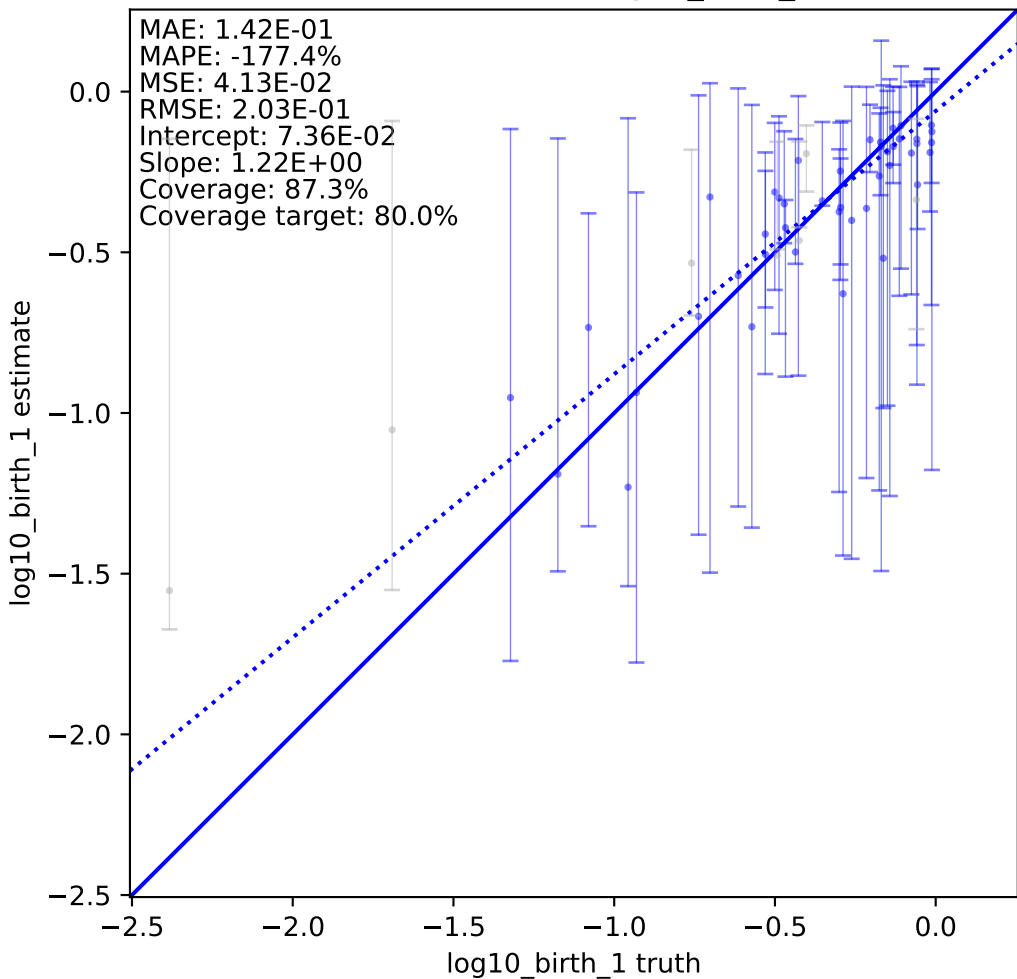


log10\_state\_rate



Data

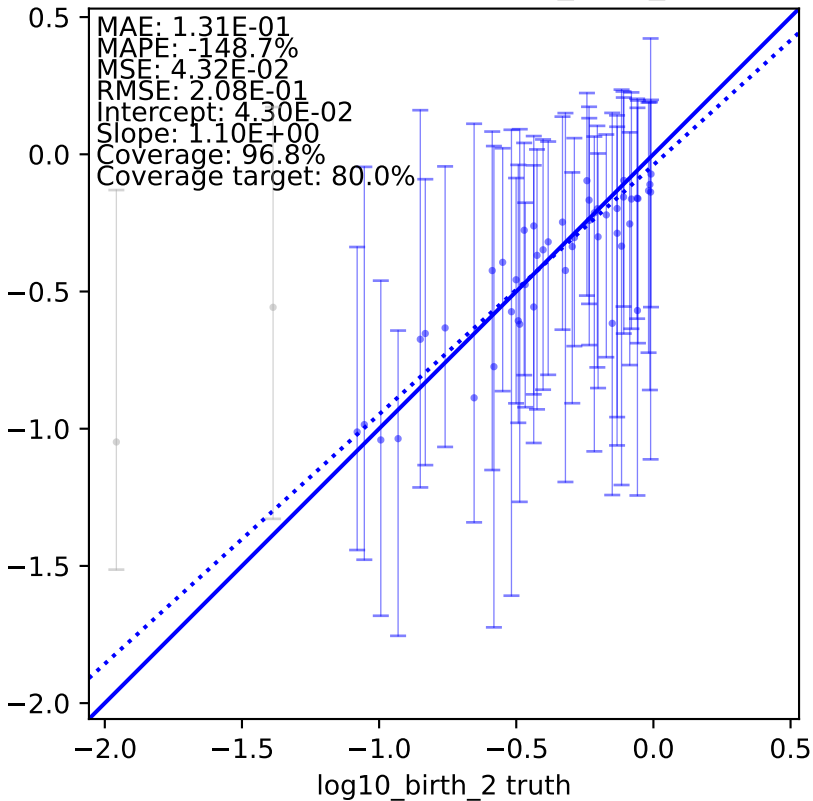
Train estimates: log10\_birth\_1



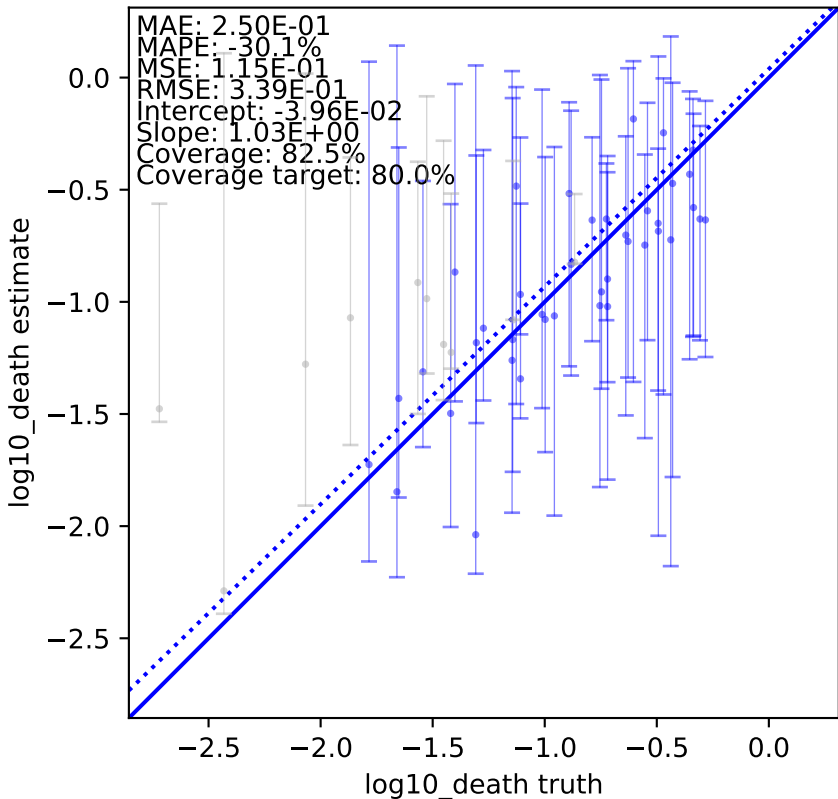
# Train estimates: log10\_birth\_2

MAE: 1.31E-01  
MAPE: -148.7%  
MSE: 4.32E-02  
RMSE: 2.08E-01  
Intercept: 4.30E-02  
Slope: 1.10E+00  
Coverage: 96.8%  
Coverage target: 80.0%

log10\_birth\_2 estimate



# Train estimates: log10\_death





# Train estimates: log10\_state\_rate

MAE: 1.88E-01  
MAPE: -12.8%  
MSE: 6.16E-02  
RMSE: 2.48E-01  
Intercept: 2.77E-01  
Slope: 1.19E+00  
Coverage: 84.1%  
Coverage target: 80.0%

log10\_state\_rate estimate

0.0

-0.5

-1.0

-1.5

-2.0

-2.5

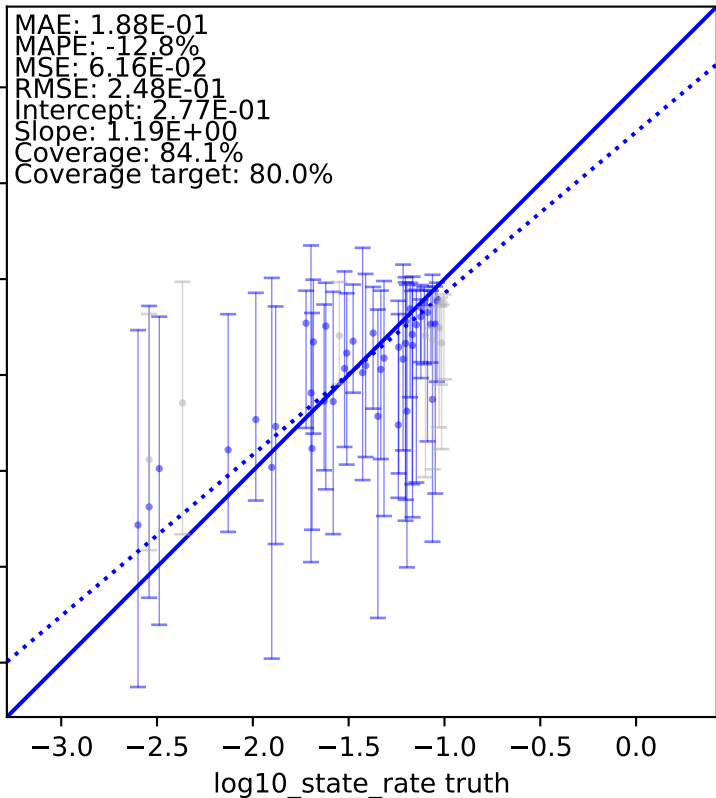
-3.0

-3.0

log10\_state\_rate truth

-0.5

0.0



# Test estimates: log10\_birth\_1

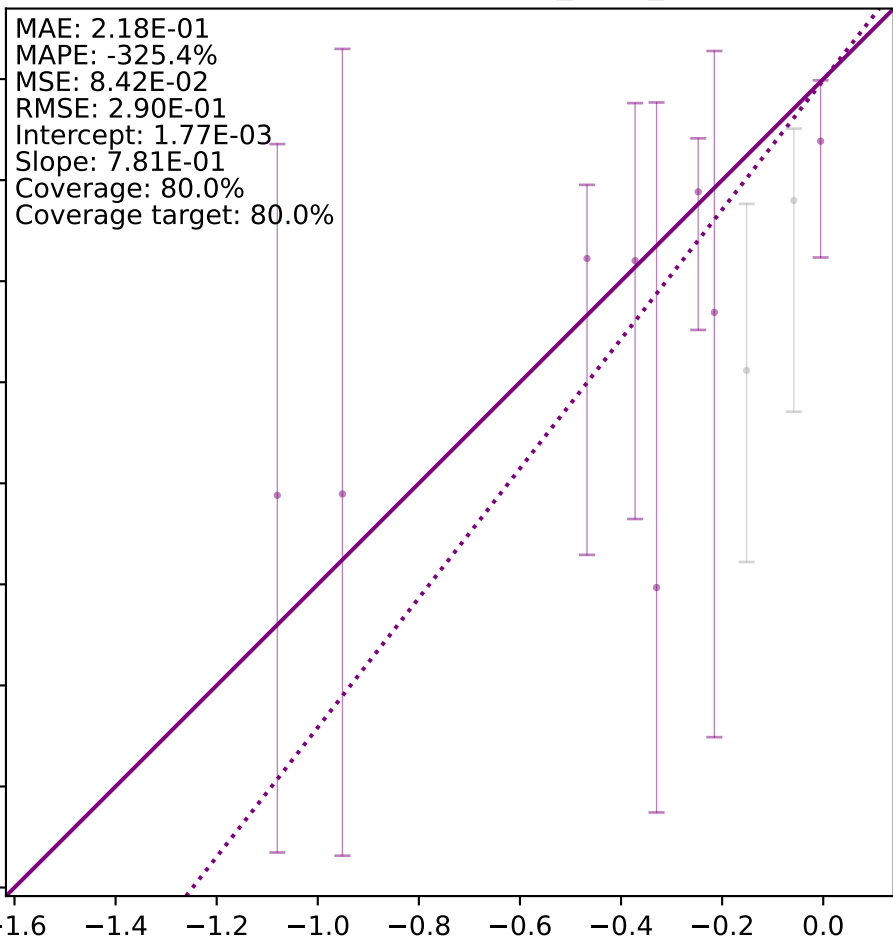
MAE: 2.18E-01  
MAPE: -325.4%  
MSE: 8.42E-02  
RMSE: 2.90E-01  
Intercept: 1.77E-03  
Slope: 7.81E-01  
Coverage: 80.0%  
Coverage target: 80.0%

log10\_birth\_1 estimate

0.0  
-0.2  
-0.4  
-0.6  
-0.8  
-1.0  
-1.2  
-1.4  
-1.6

-1.6 -1.4 -1.2 -1.0 -0.8 -0.6 -0.4 -0.2 0.0

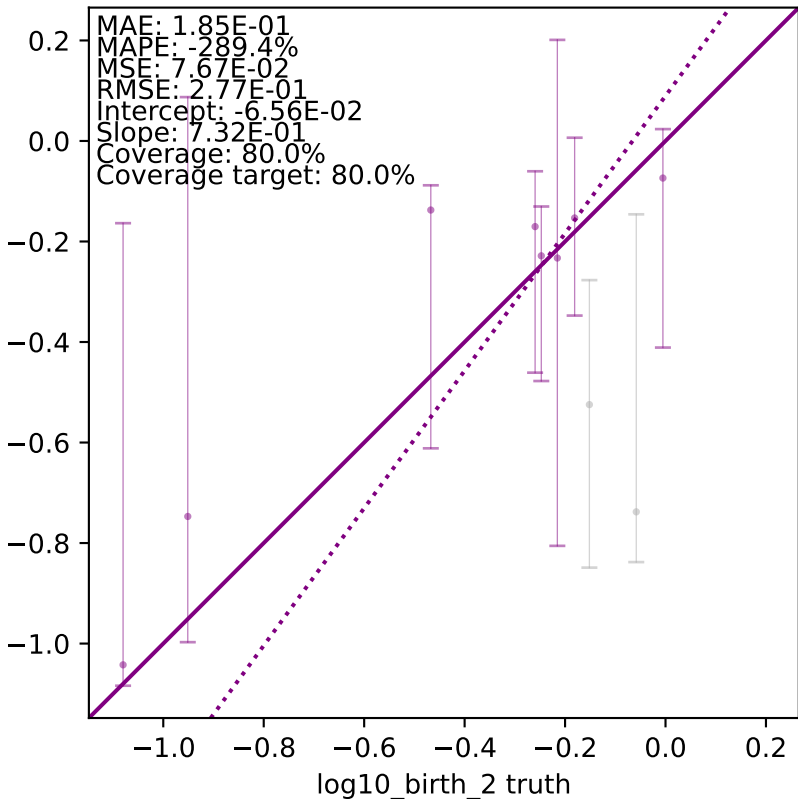
log10\_birth\_1 truth



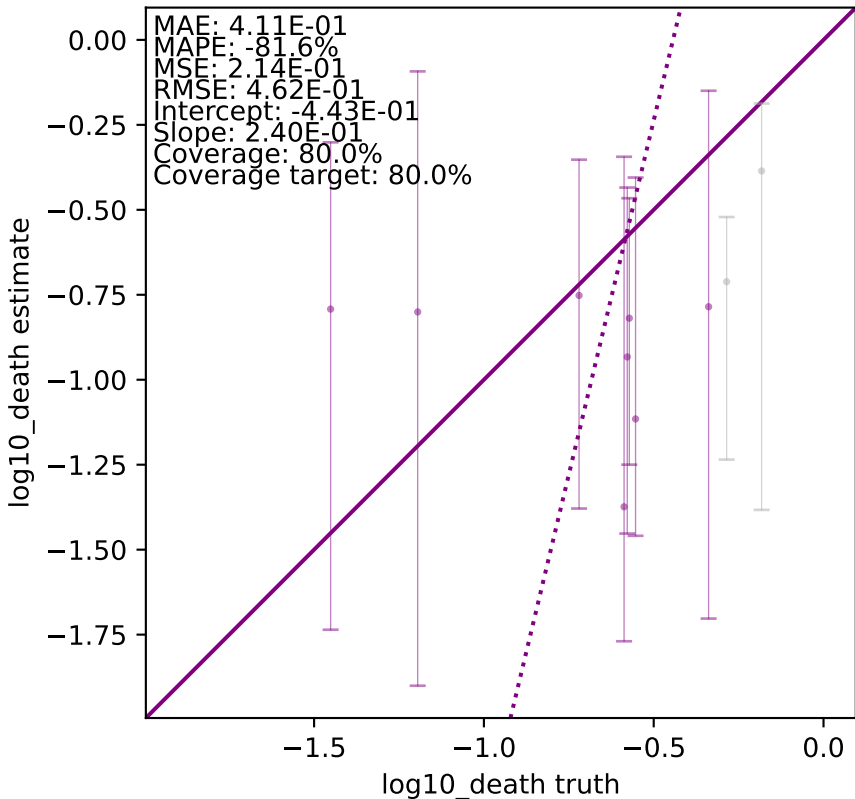
# Test estimates: log10\_birth\_2

MAE: 1.85E-01  
MAPE: -289.4%  
MSE: 7.67E-02  
RMSE: 2.77E-01  
Intercept: -6.56E-02  
Slope: 7.32E-01  
Coverage: 80.0%  
Coverage target: 80.0%

log10\_birth\_2 estimate



# Test estimates: log10\_death



# Test estimates: log10\_state\_rate

MAE: 4.07E-01  
MAPE: -29.1%  
MSE: 2.44E-01  
RMSE: 4.94E-01  
Intercept: -1.19E+00  
Slope: 1.70E-01  
Coverage: 30.0%  
Coverage target: 80.0%

log10\_state\_rate estimate

0.0

-0.5

-1.0

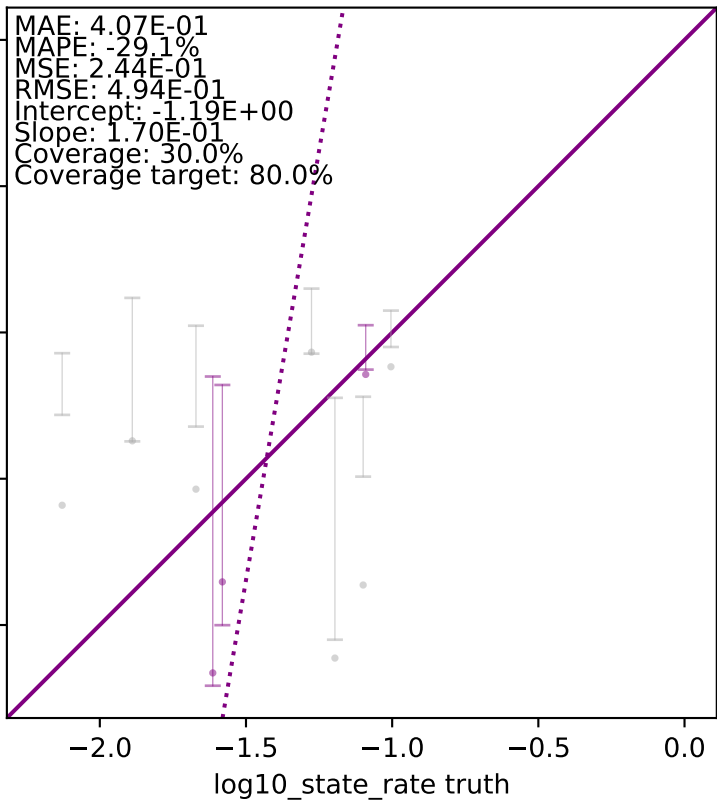
-1.5

-2.0

-2.0

log10\_state\_rate truth

0.0



# Training history

