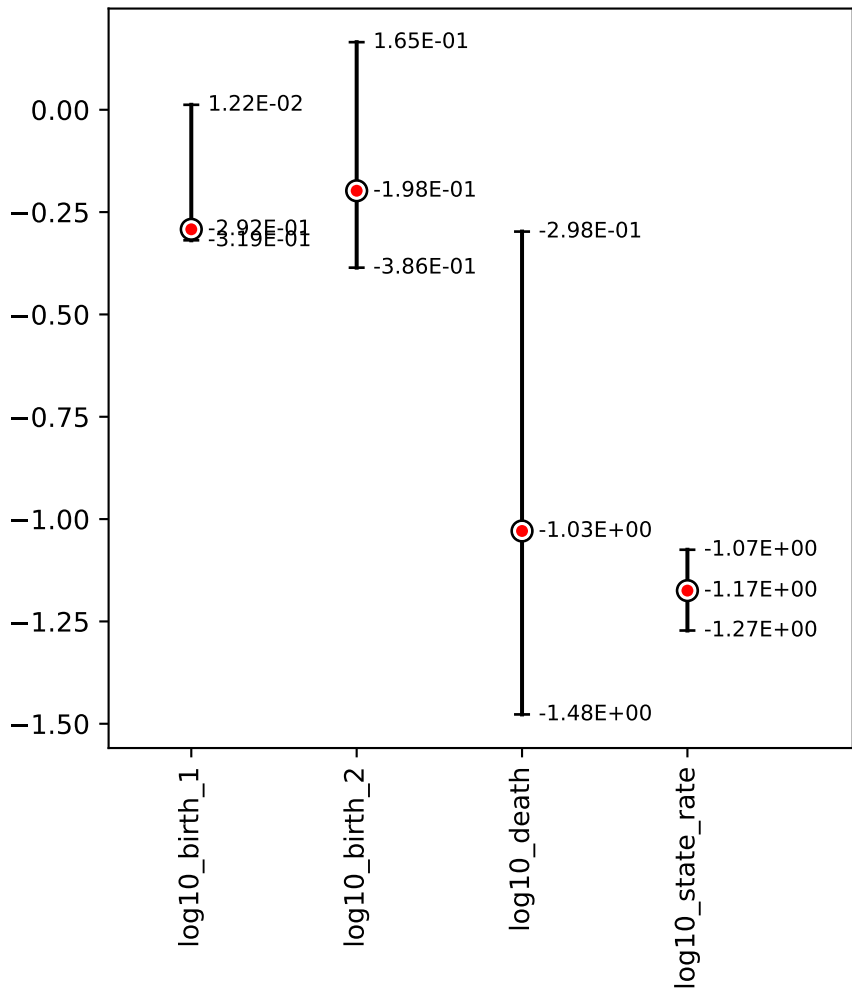
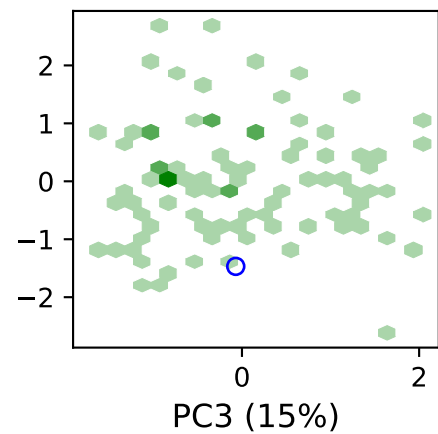
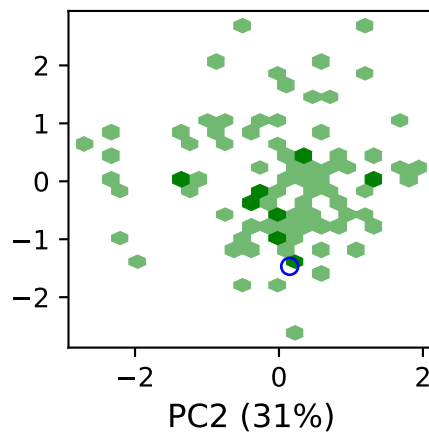
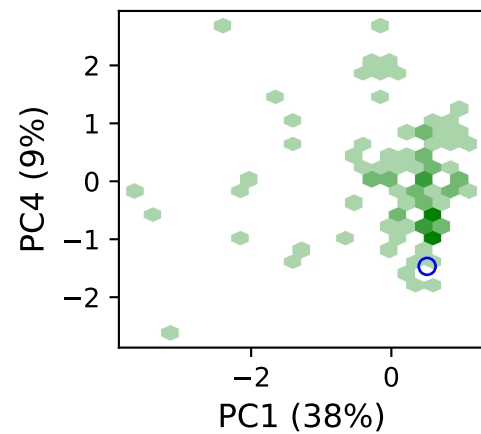
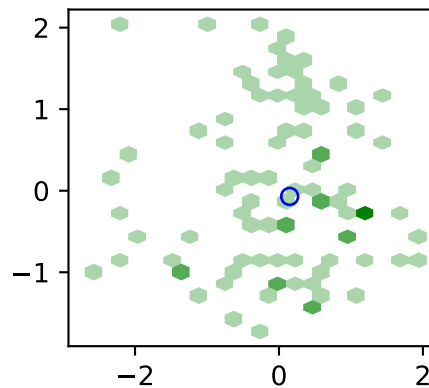
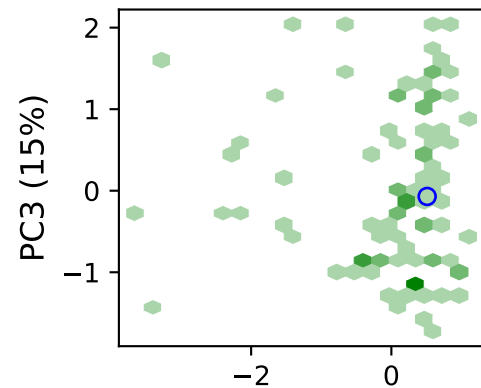
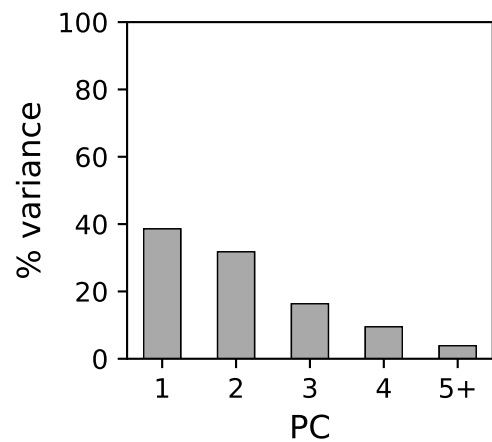
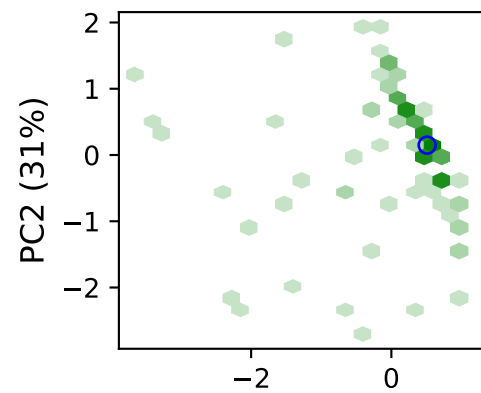


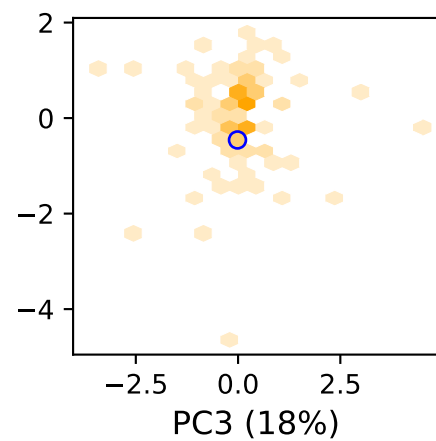
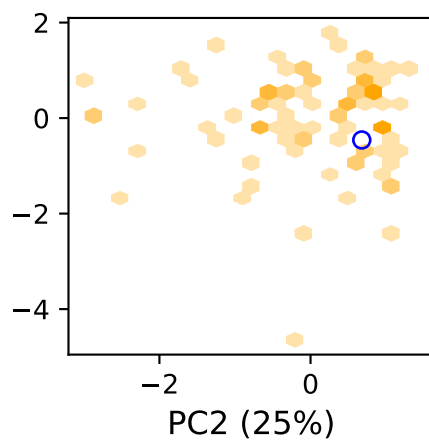
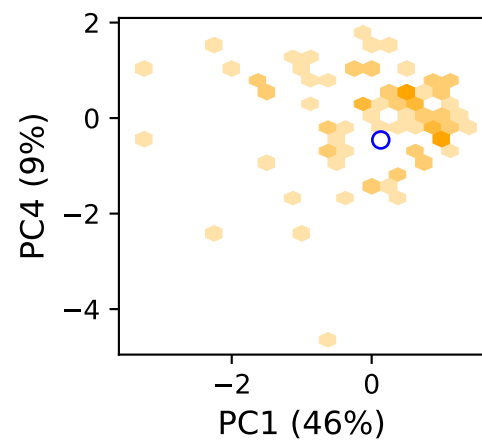
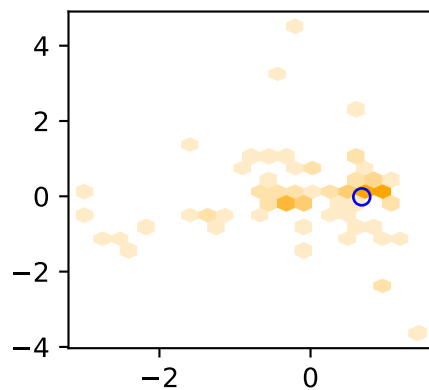
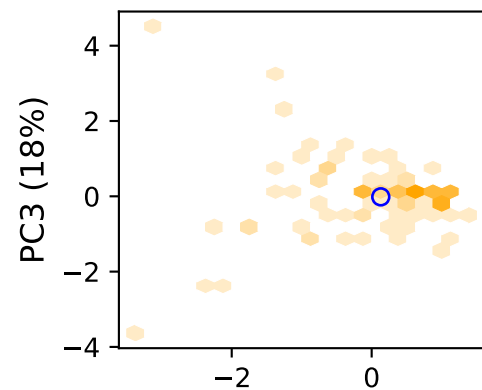
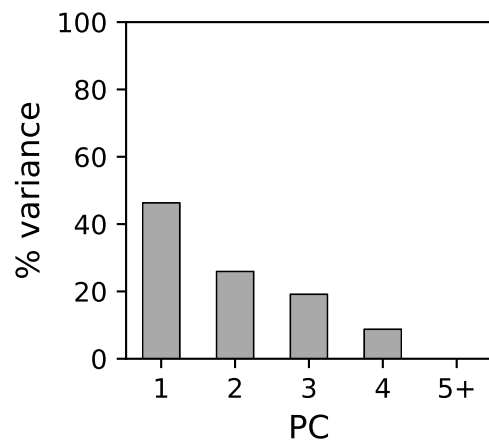
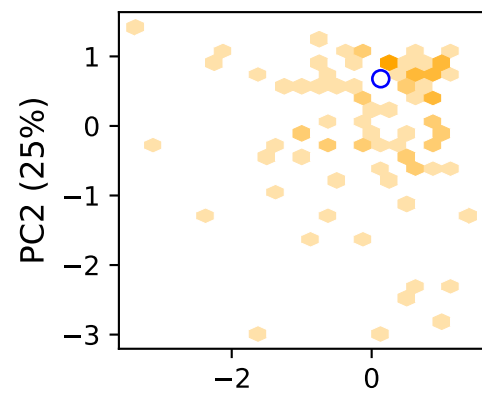
# Estimate: out.empirical.0



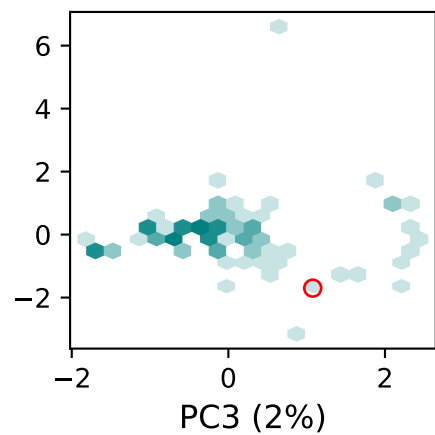
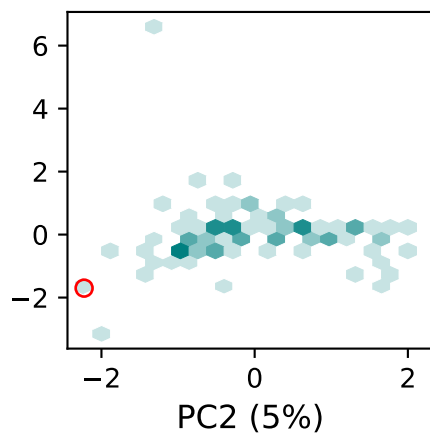
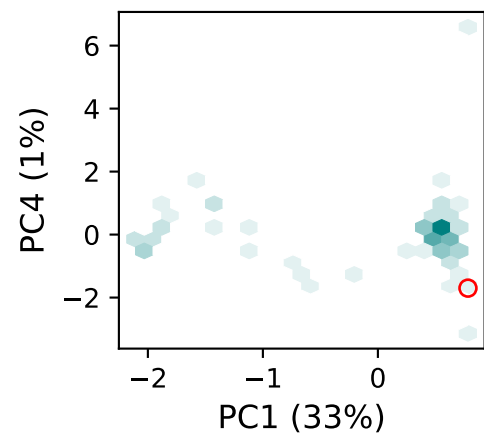
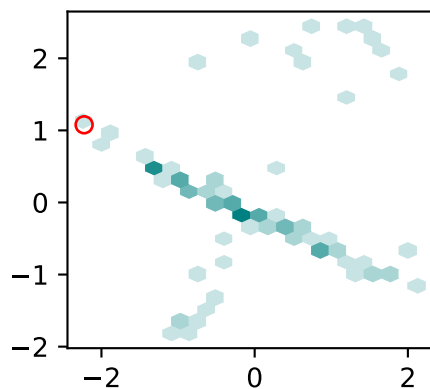
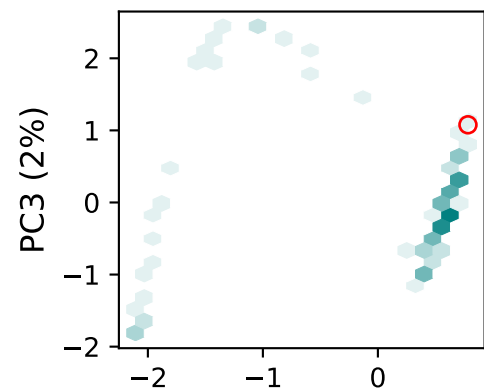
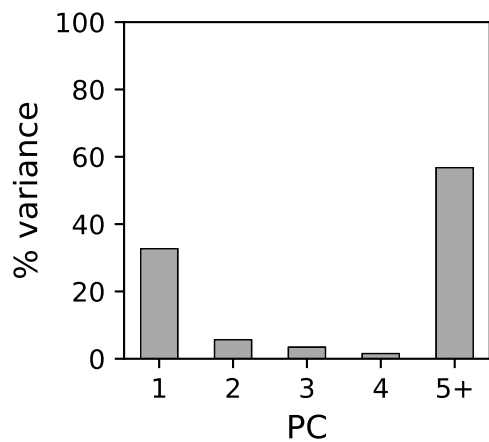
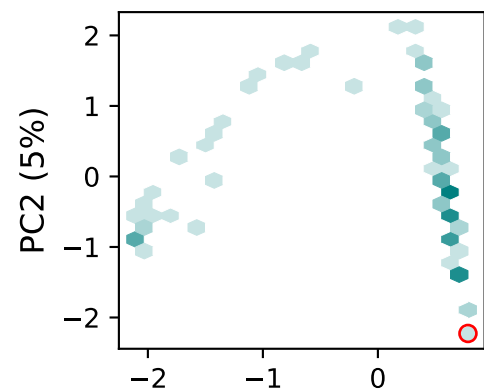
# PCA: training aux. data



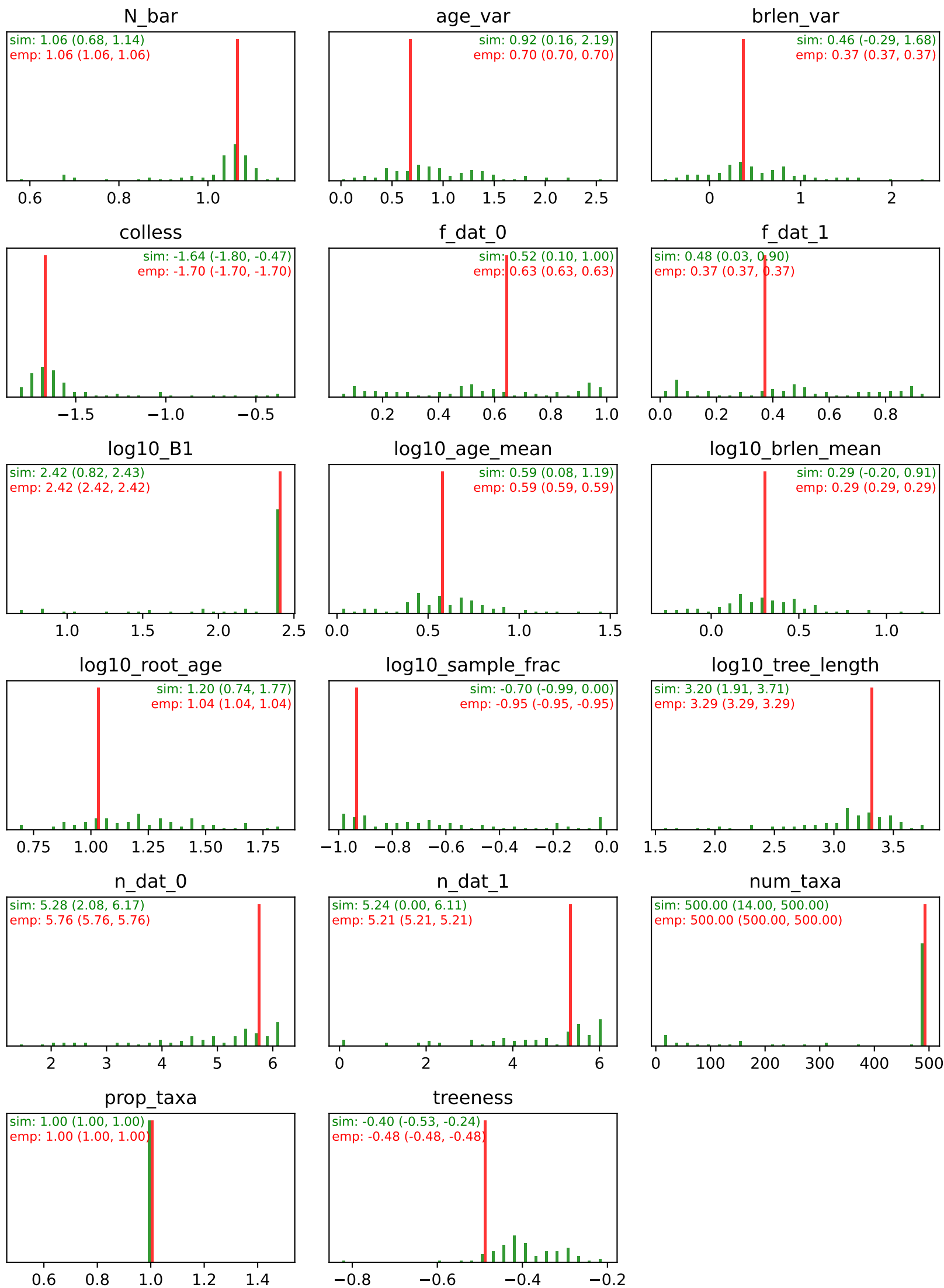
# PCA: training labels



# PCA: training phy. data



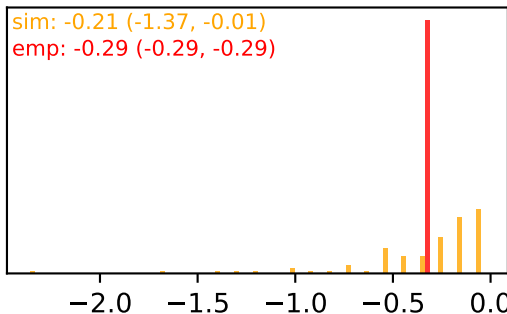
# Density: training aux. data



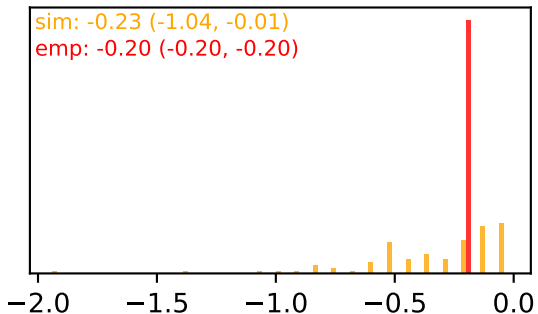
Variable

## Density: training labels

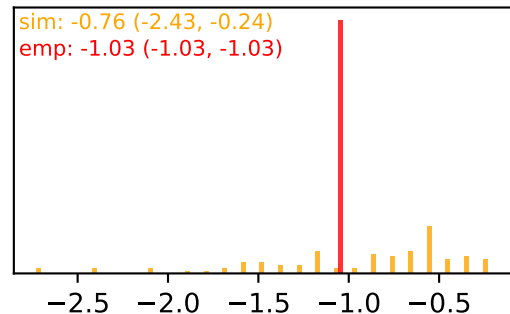
log10\_birth\_1



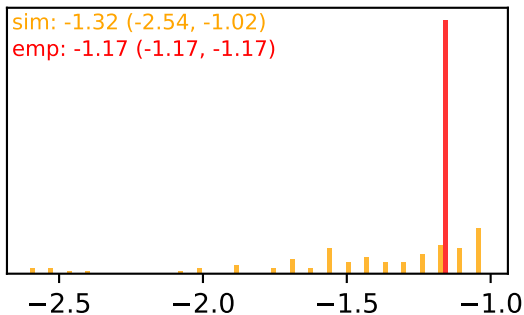
log10\_birth\_2



log10\_death

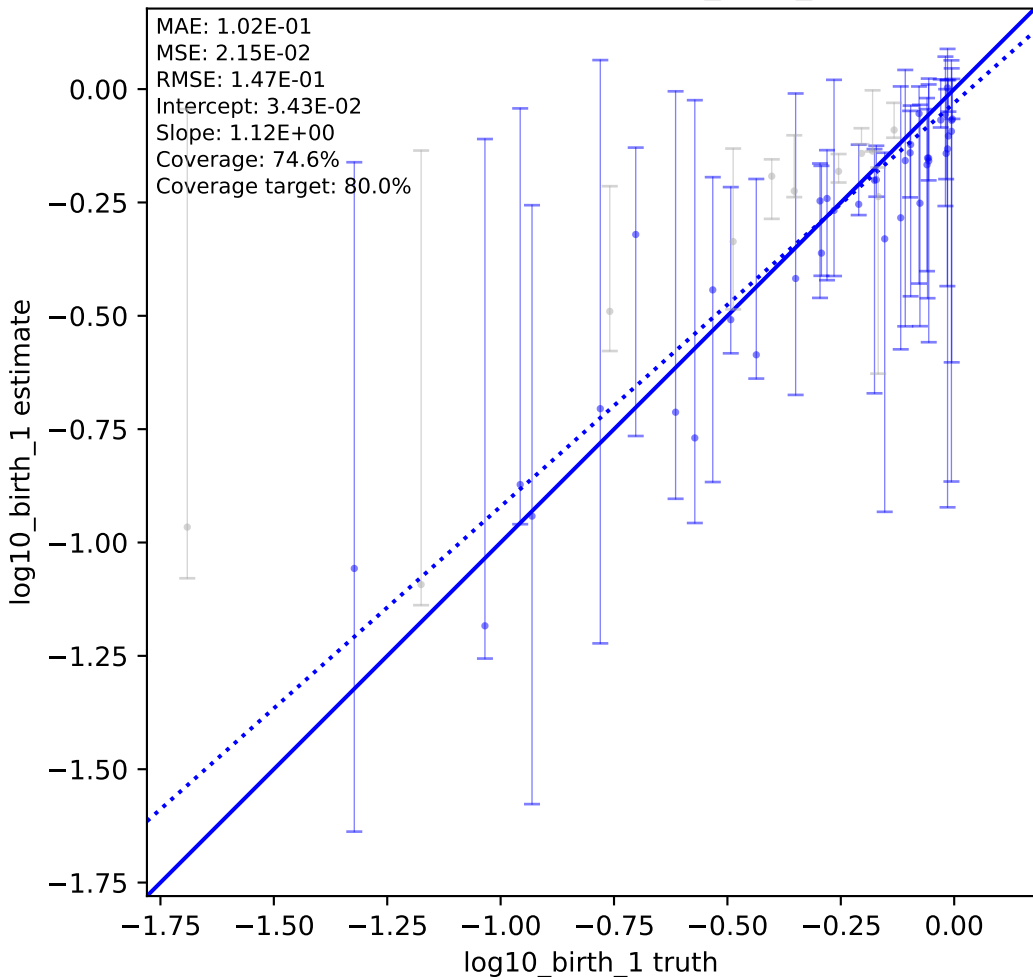


log10\_state\_rate



Variable

Train estimates: log10\_birth\_1



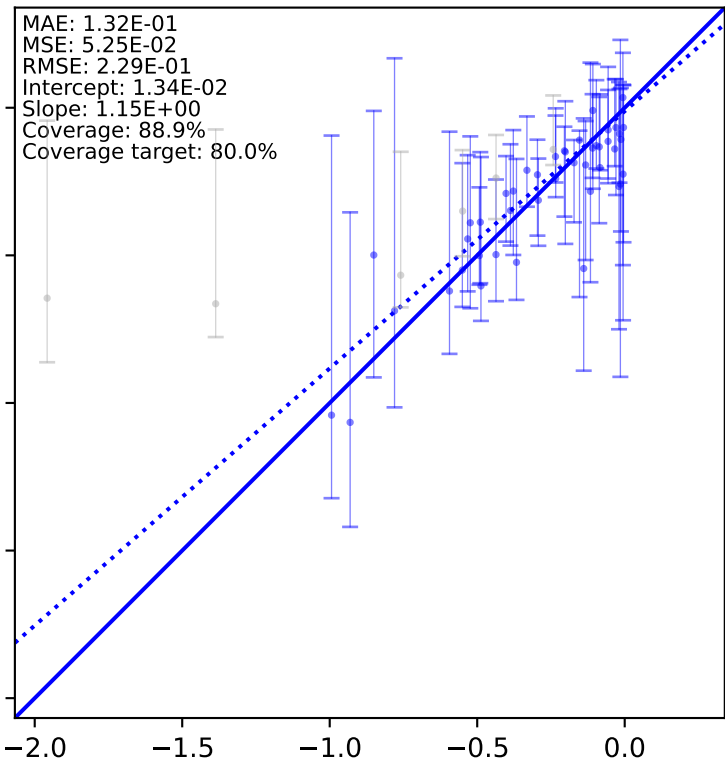
# Train estimates: log10\_birth\_2

MAE: 1.32E-01  
MSE: 5.25E-02  
RMSE: 2.29E-01  
Intercept: 1.34E-02  
Slope: 1.15E+00  
Coverage: 88.9%  
Coverage target: 80.0%

log10\_birth\_2 estimate

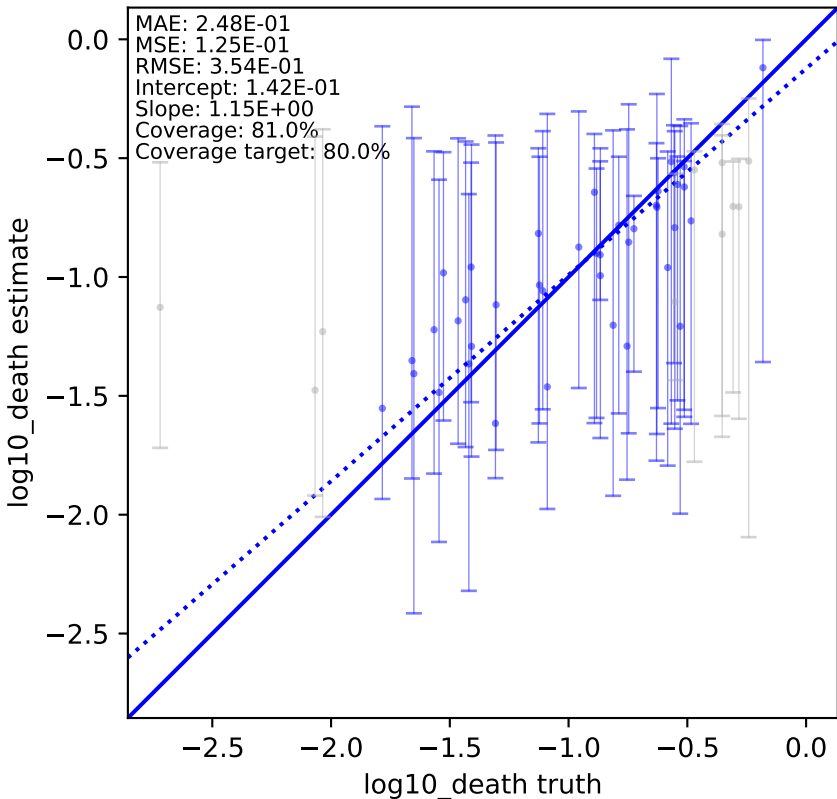
0.0  
-0.5  
-1.0  
-1.5  
-2.0

log10\_birth\_2 truth





# Train estimates: log10\_death



# Train estimates: log10\_state\_rate

MAE: 1.62E-01  
MSE: 4.45E-02  
RMSE: 2.11E-01  
Intercept: 6.84E-03  
Slope: 1.01E+00  
Coverage: 88.9%  
Coverage target: 80.0%

log10\_state\_rate estimate

-1.0  
-1.5  
-2.0  
-2.5  
-3.0

-3.0

-2.5

-2.0

-1.5

-1.0

log10\_state\_rate truth

# Test estimates: log10\_birth\_1

MAE: 3.18E-01  
MSE: 1.58E-01  
RMSE: 3.98E-01  
Intercept: -3.07E-01  
Slope: -1.92E-01  
Coverage: 100.0%  
Coverage target: 80.0%

log10\_birth\_1 estimate

0.5

0.0

-0.5

-1.0

-1.5

-1.5

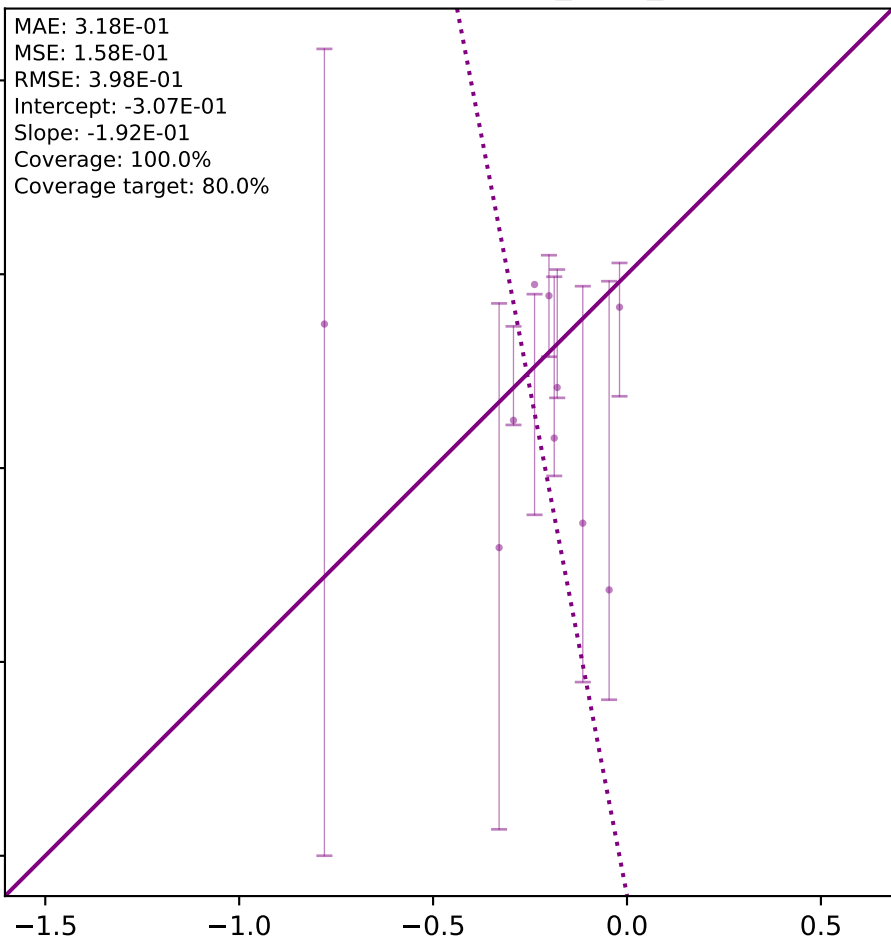
-1.0

-0.5

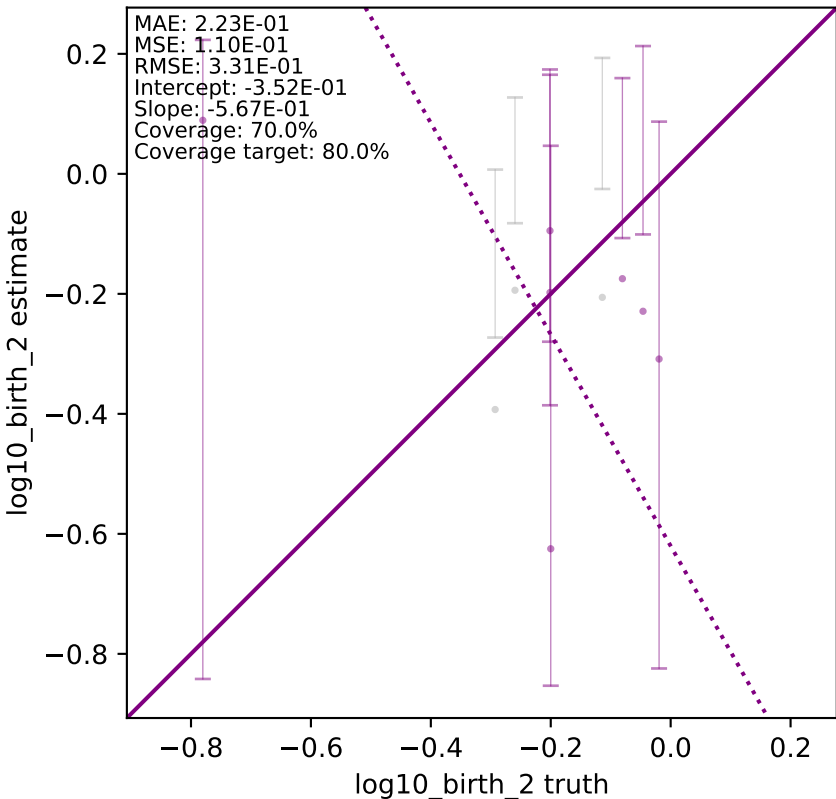
0.0

0.5

log10\_birth\_1 truth



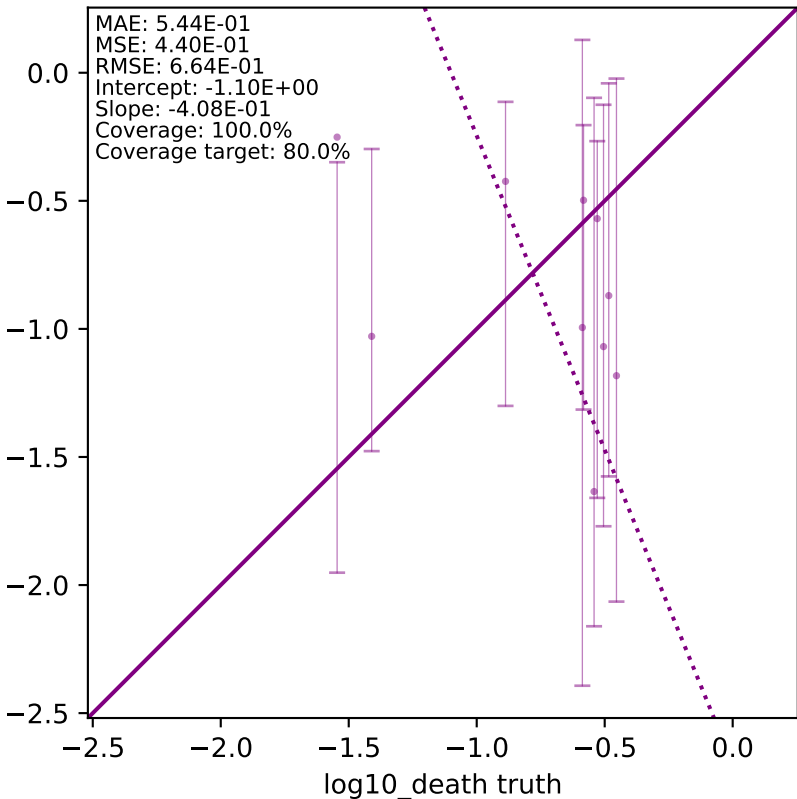
# Test estimates: log10\_birth\_2



# Test estimates: log10\_death

MAE: 5.44E-01  
MSE: 4.40E-01  
RMSE: 6.64E-01  
Intercept: -1.10E+00  
Slope: -4.08E-01  
Coverage: 100.0%  
Coverage target: 80.0%

log10\_death estimate

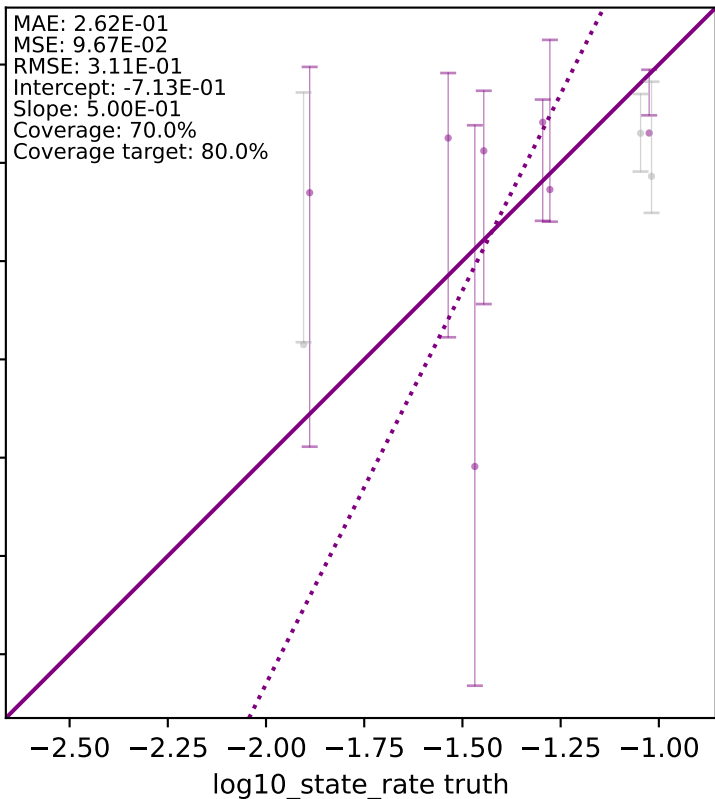


# Test estimates: log10\_state\_rate

MAE: 2.62E-01  
MSE: 9.67E-02  
RMSE: 3.11E-01  
Intercept: -7.13E-01  
Slope: 5.00E-01  
Coverage: 70.0%  
Coverage target: 80.0%

log10\_state\_rate estimate

-1.00  
-1.25  
-1.50  
-1.75  
-2.00  
-2.25  
-2.50



-2.50 -2.25 -2.00 -1.75 -1.50 -1.25 -1.00

log10\_state\_rate truth

