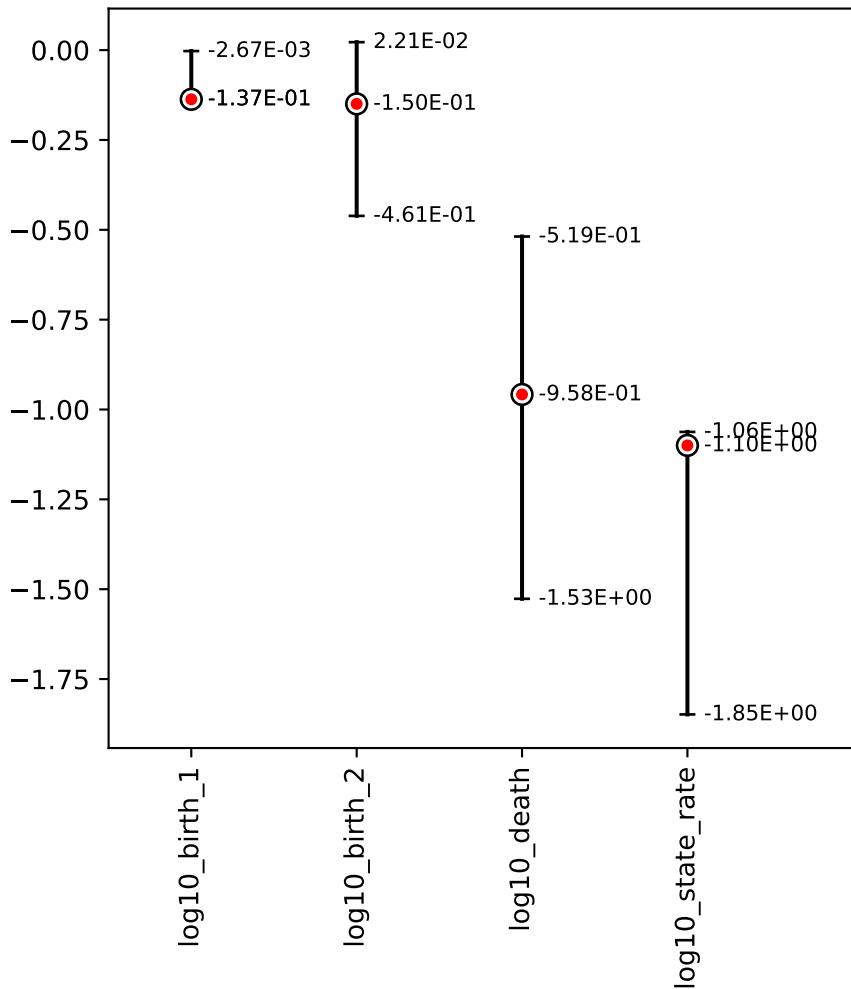
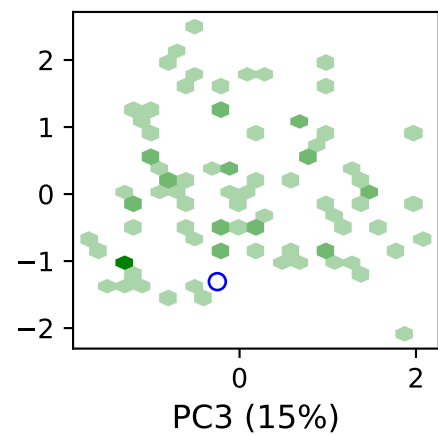
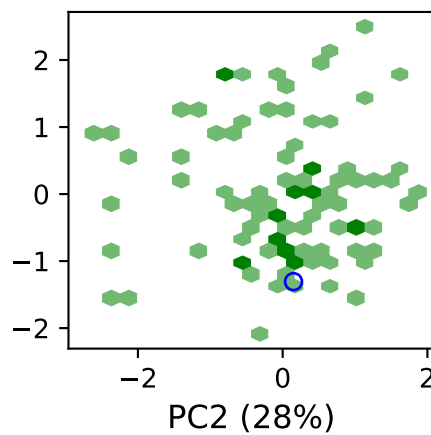
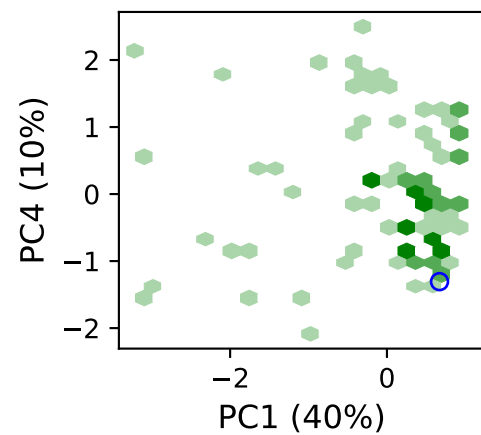
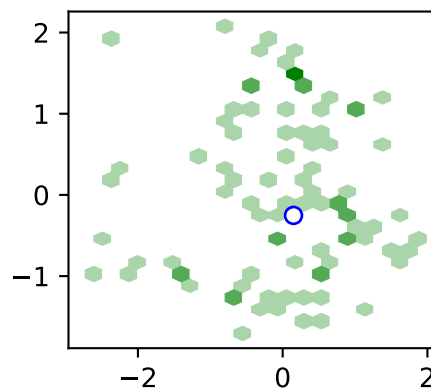
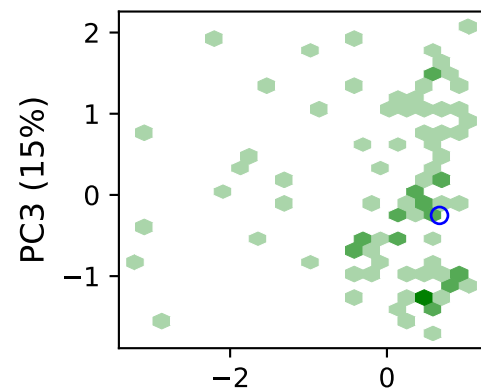
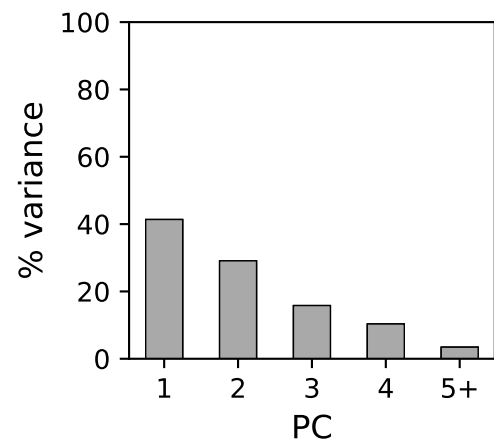
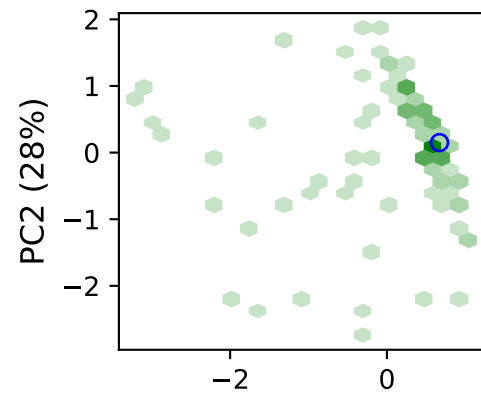


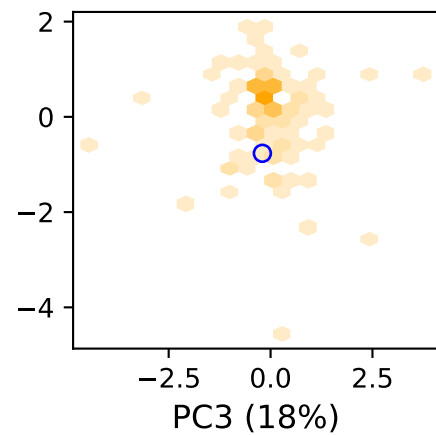
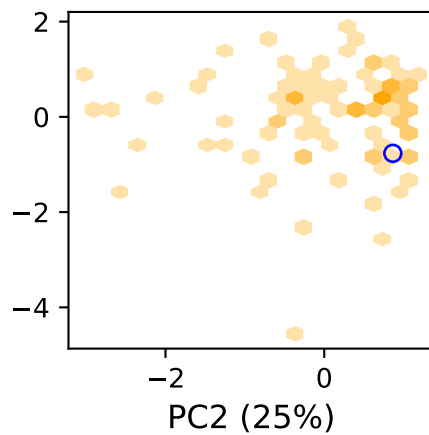
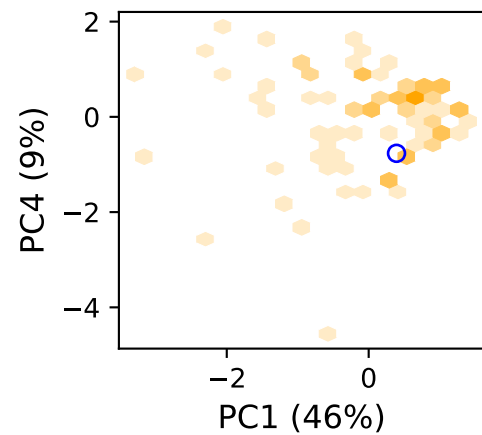
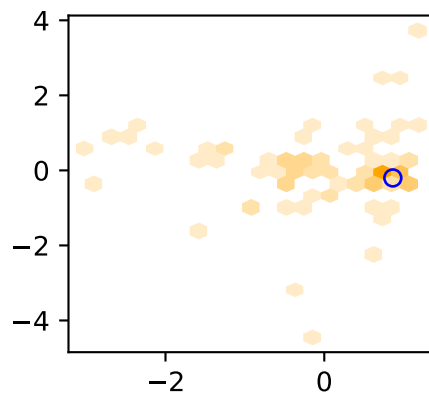
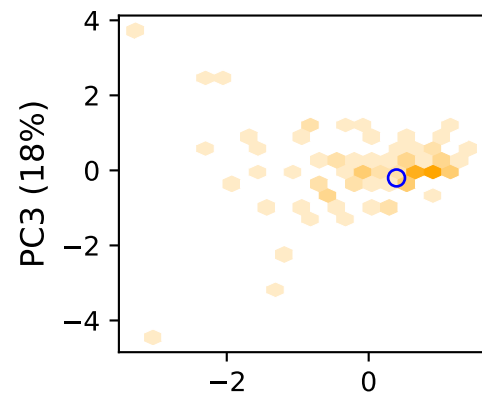
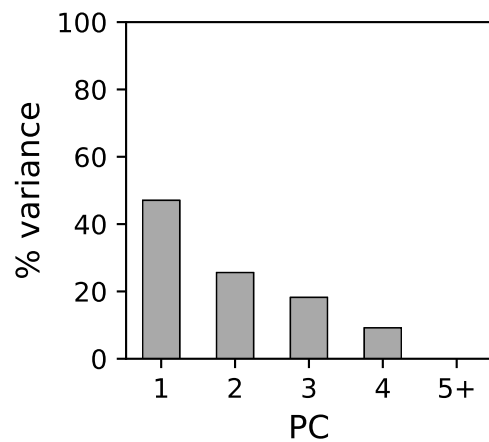
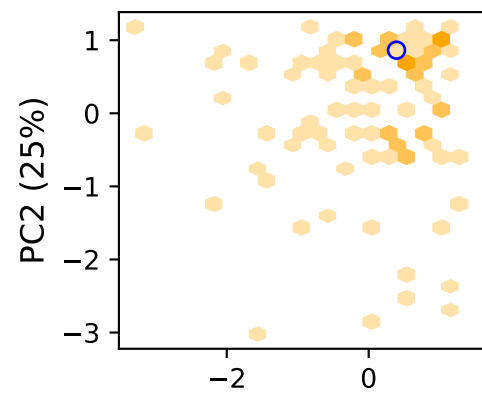
# Estimate: out.empirical.0



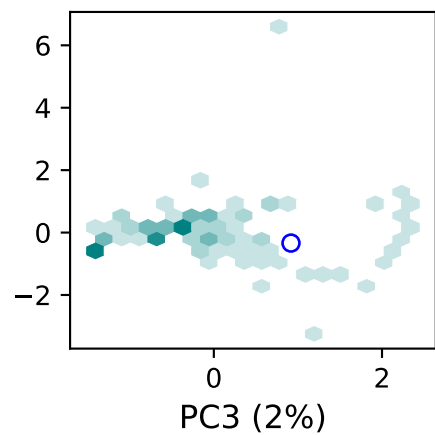
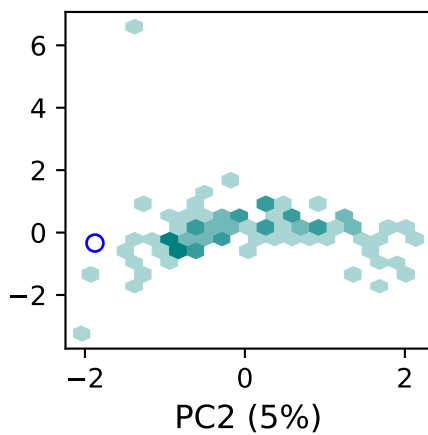
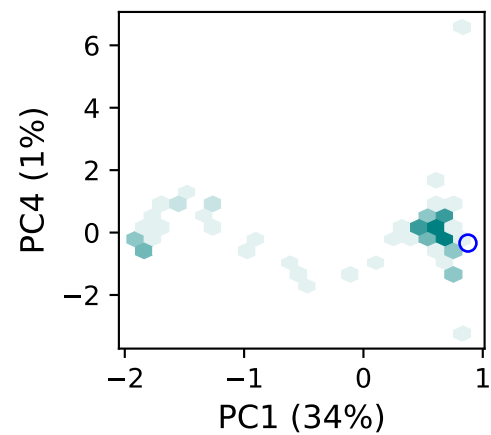
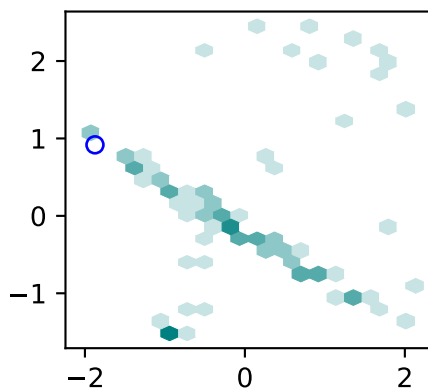
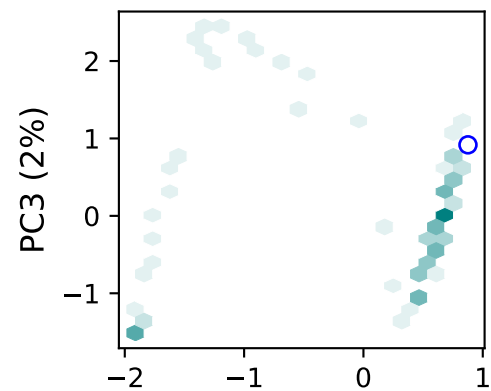
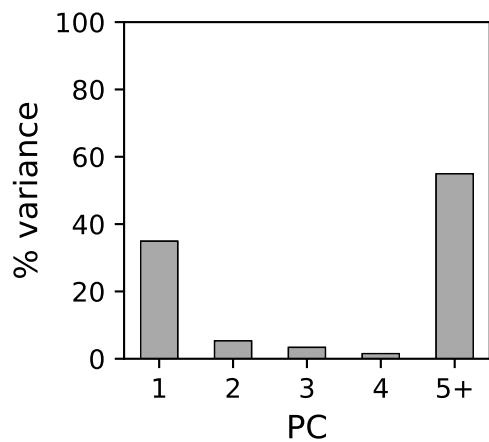
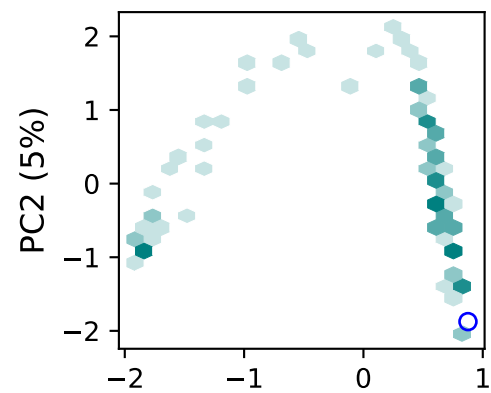
# PCA: training aux. data



# PCA: training labels

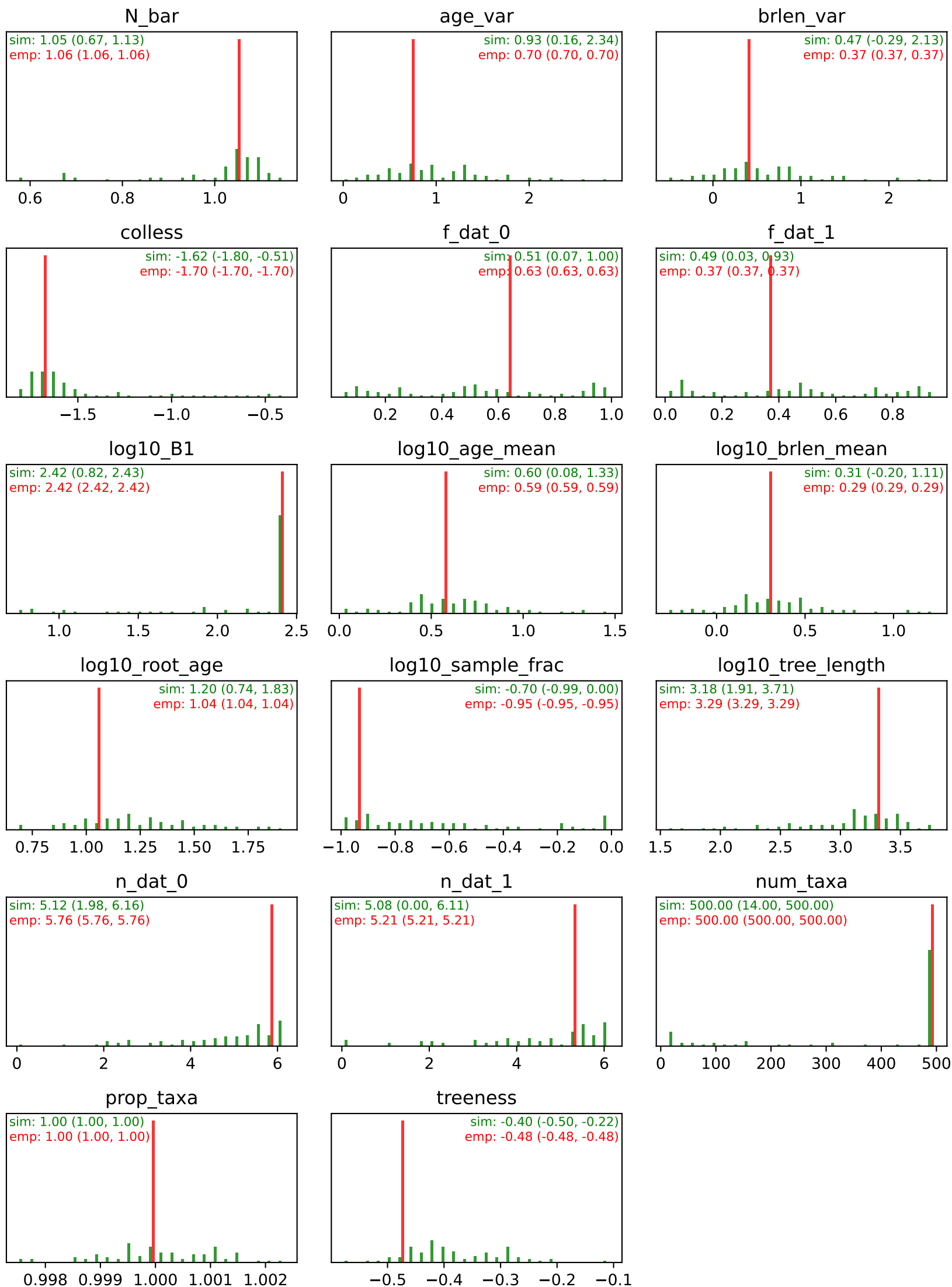


# PCA: training phy. data



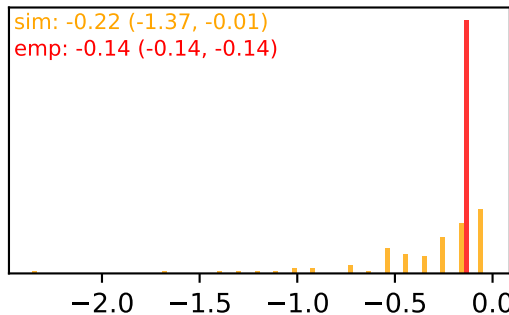
# Density: training aux. data

Density

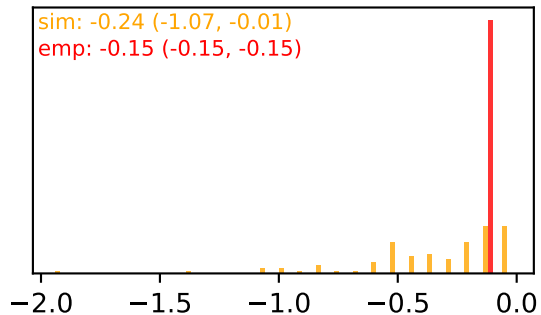


## Density: training labels

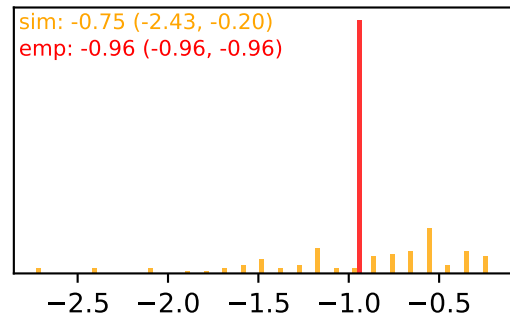
### log10\_birth\_1



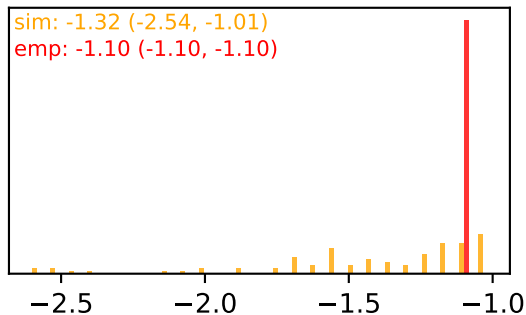
### log10\_birth\_2



### log10\_death



### log10\_state\_rate



Variable

Train estimates: log10\_birth\_1

MAE: 1.47E-01  
 MSE: 4.25E-02  
 RMSE: 2.06E-01  
 Intercept: 7.88E-02  
 Slope: 1.19E+00  
 Coverage: 84.1%  
 Coverage target: 80.0%

log10\_birth\_1 estimate

0.0

-0.5

-1.0

-1.5

-2.0

-2.5

log10\_birth\_1 truth

-2.5

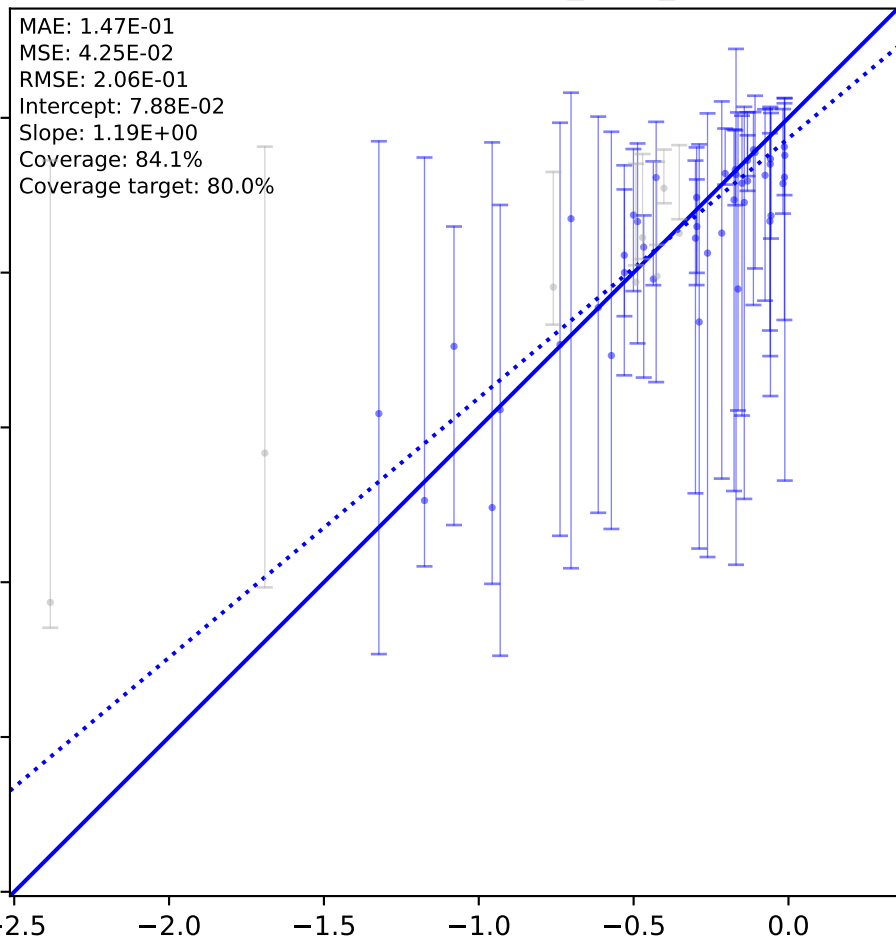
-2.0

-1.5

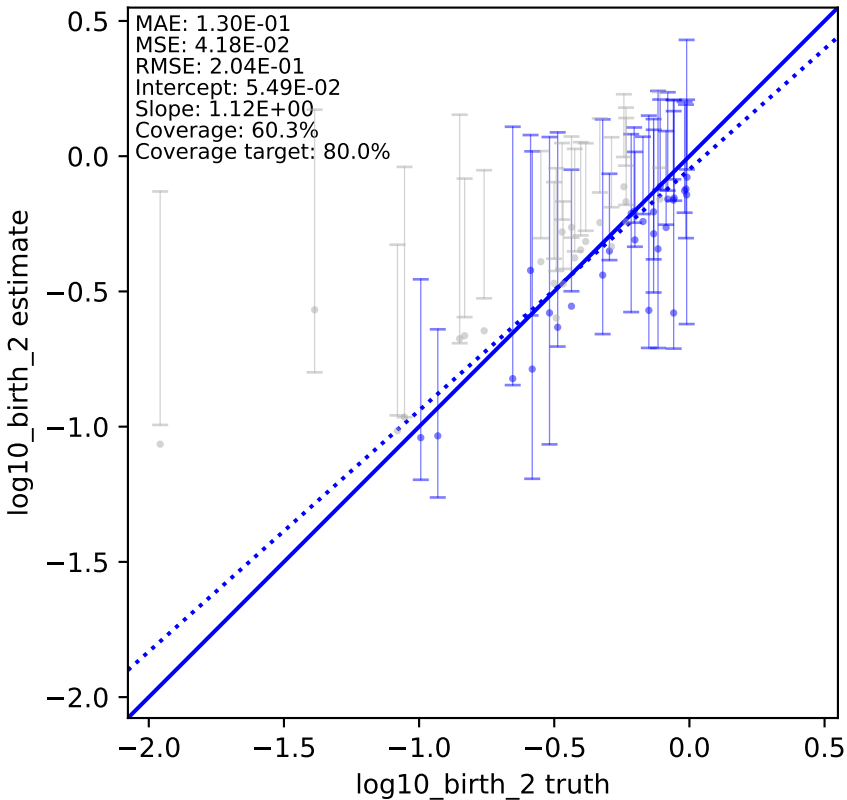
-1.0

-0.5

0.0

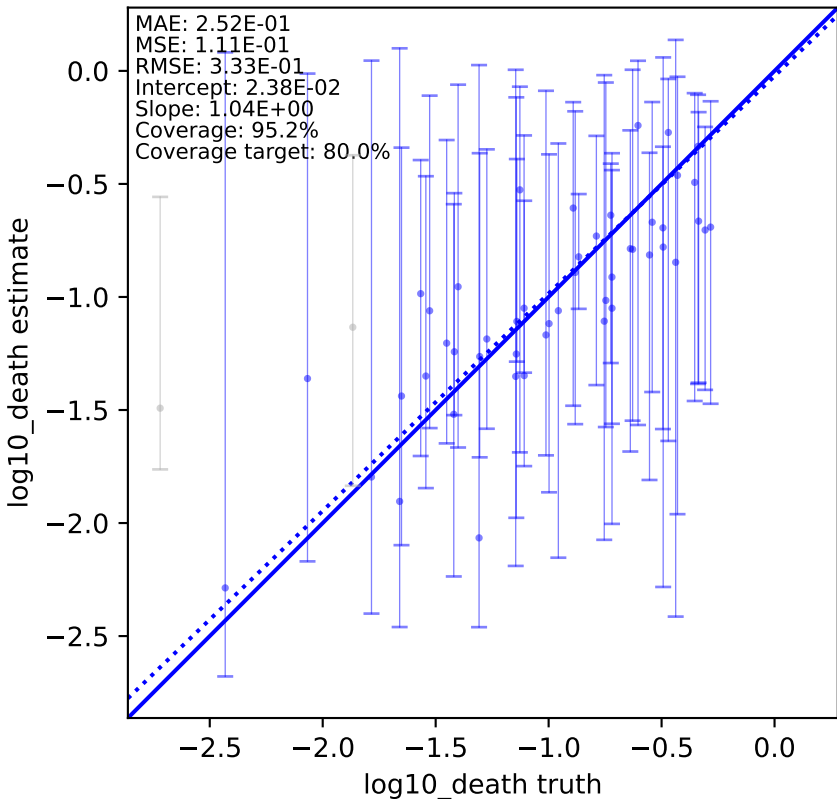


# Train estimates: log10\_birth\_2

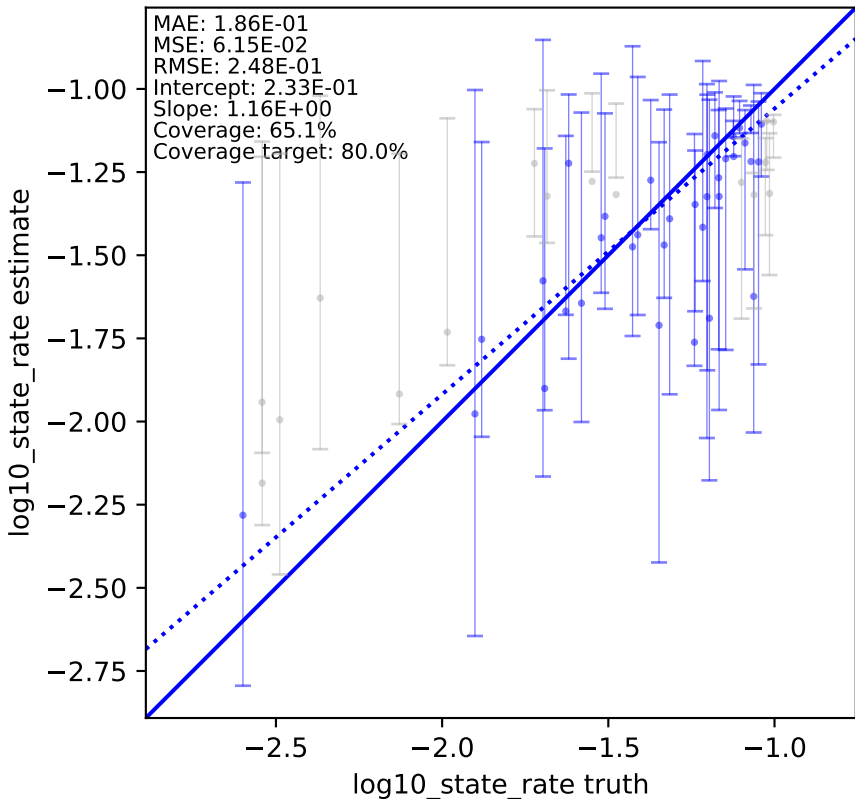




# Train estimates: log10\_death



# Train estimates: log10\_state\_rate



# Test estimates: log10\_birth\_1

MAE: 2.20E-01  
MSE: 8.17E-02  
RMSE: 2.86E-01  
Intercept: 3.25E-03  
Slope: 7.99E-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

-1.2

-1.0

-0.8

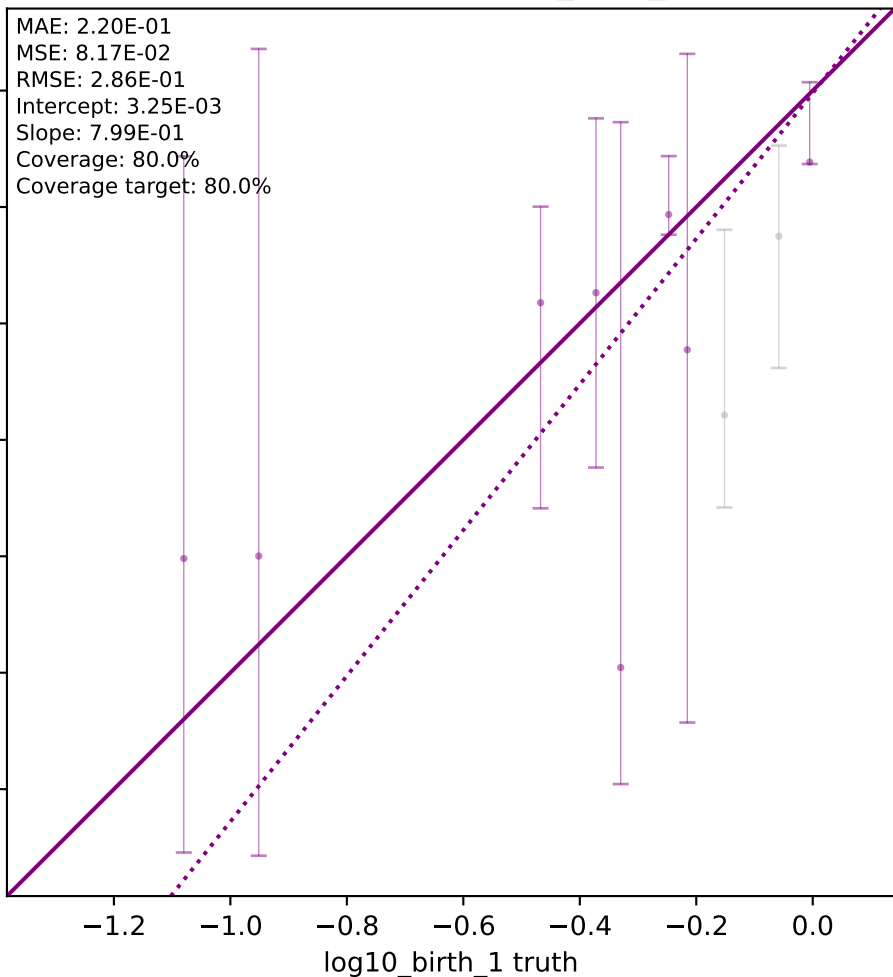
-0.6

-0.4

-0.2

0.0

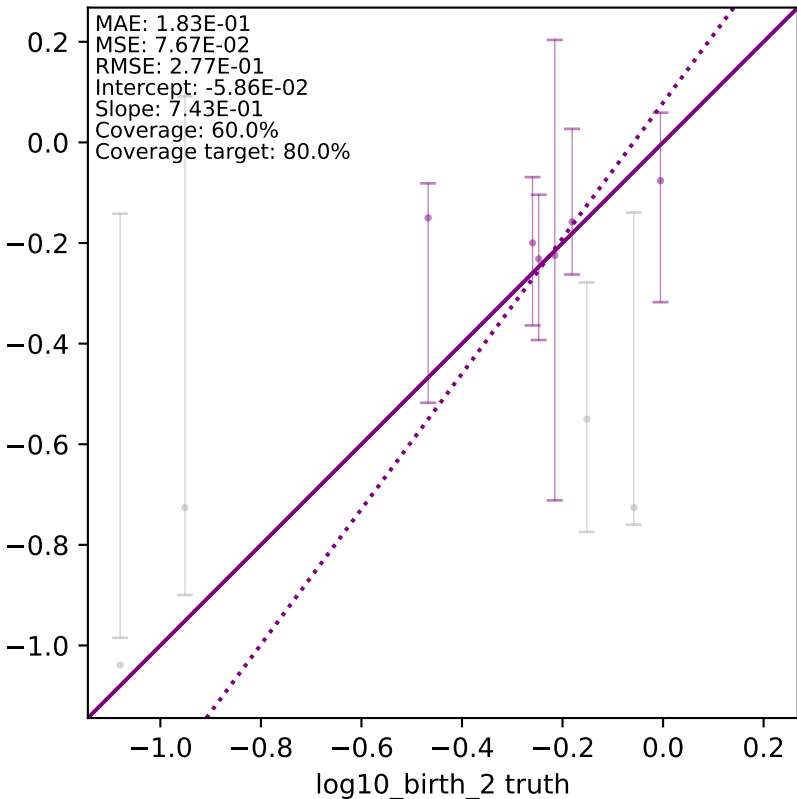
log10\_birth\_1 truth



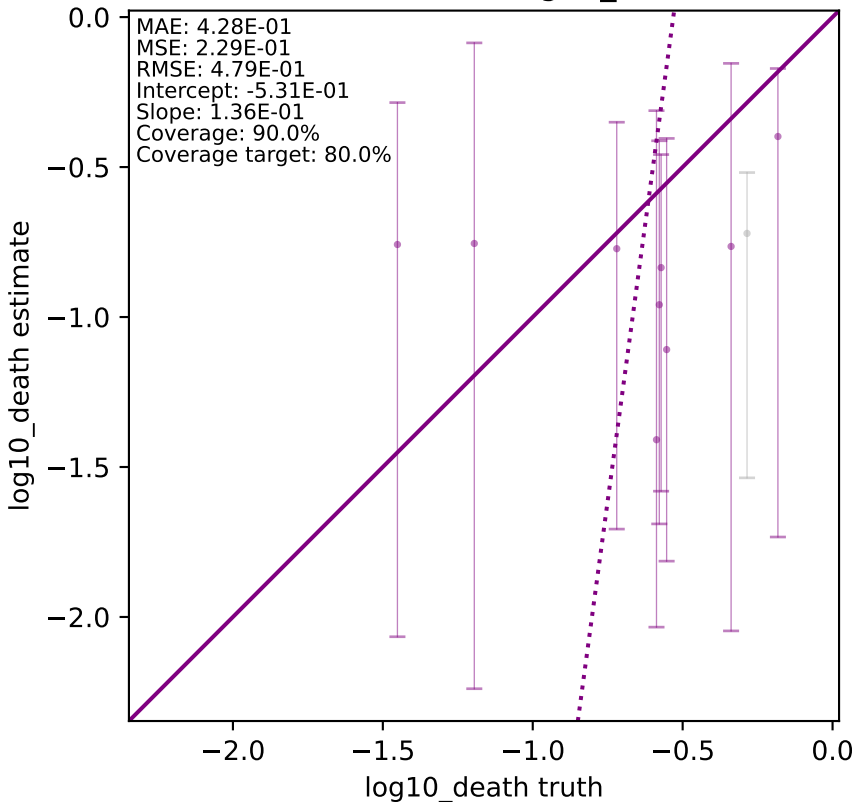
# Test estimates: log10\_birth\_2

MAE: 1.83E-01  
MSE: 7.67E-02  
RMSE: 2.77E-01  
Intercept: -5.86E-02  
Slope: 7.43E-01  
Coverage: 60.0%  
Coverage target: 80.0%

log10\_birth\_2 estimate



|                        |
|------------------------|
| MAE: 4.28E-01          |
| MSE: 2.29E-01          |
| RMSE: 4.79E-01         |
| Intercept: -5.31E-01   |
| Slope: 1.36E-01        |
| Coverage: 90.0%        |
| Coverage target: 80.0% |



# Test estimates: log10\_state\_rate

MAE: 4.03E-01  
MSE: 2.39E-01  
RMSE: 4.88E-01  
Intercept: -1.17E+00  
Slope: 1.83E-01  
Coverage: 70.0%  
Coverage target: 80.0%

log10\_state\_rate estimate

-1.0  
-1.5  
-2.0  
-2.5  
-3.0

