

PHQ9 MDD prediction with log transformation  
and scale by samples  $:(x - \text{median}(x)) / \text{mad}(x)$   
log transformed phq9  
Use 2000 top genes. Only male are tested for Mostafavi.

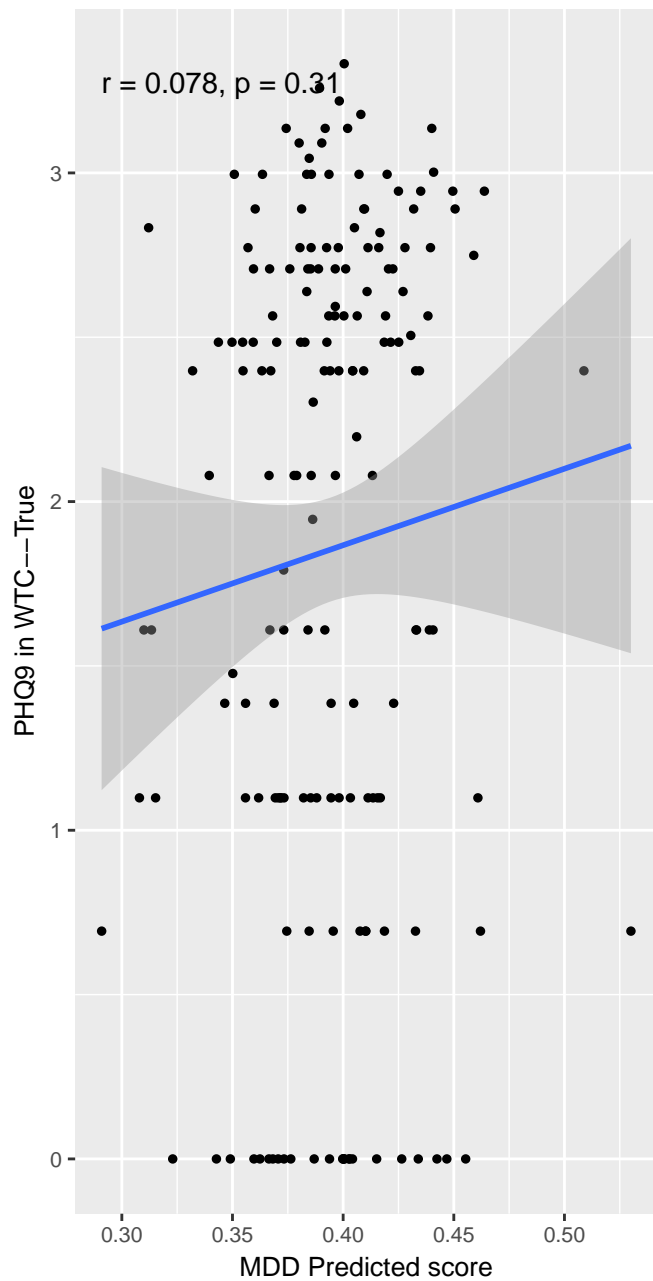
Train on MDD of batch 3

Test on batch 4 and Mostafavi

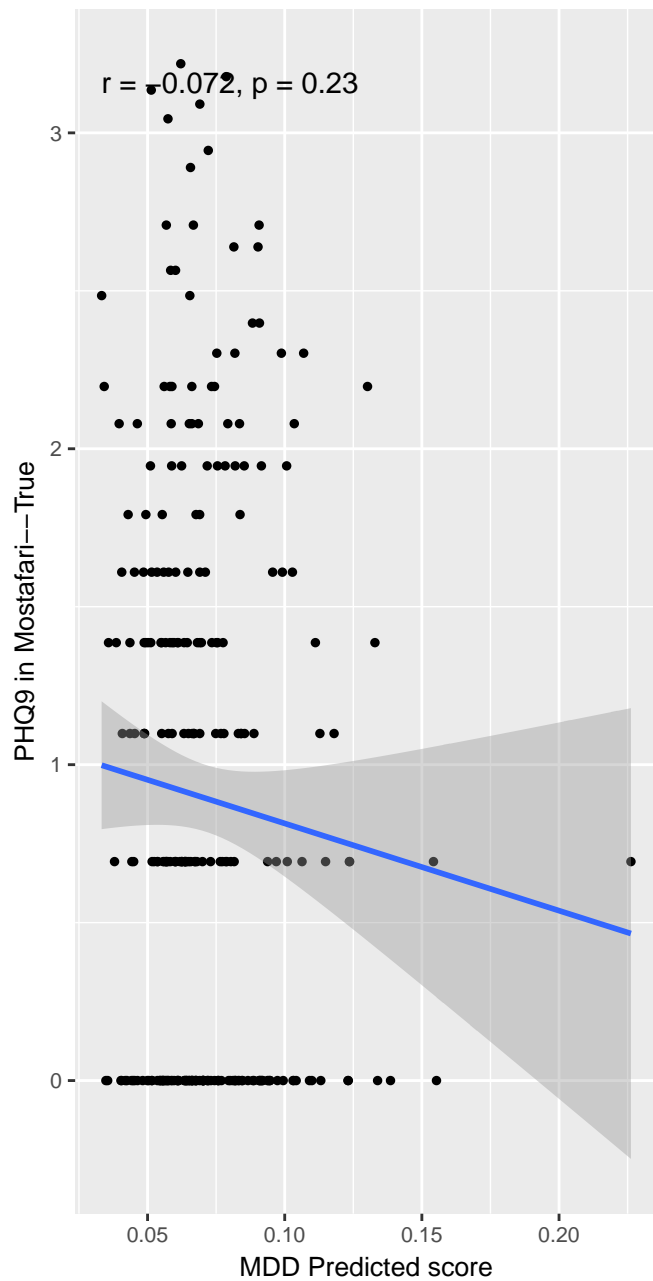
Prediction Model on MDD of Batch 4 and Mostafavi:

AUC are 0.599871134020619 0.442570828365412 respectively

MDD Predicted score vs PHQ9 by ElasticNe



MDD Predicted score vs PHQ9 by ElasticNe



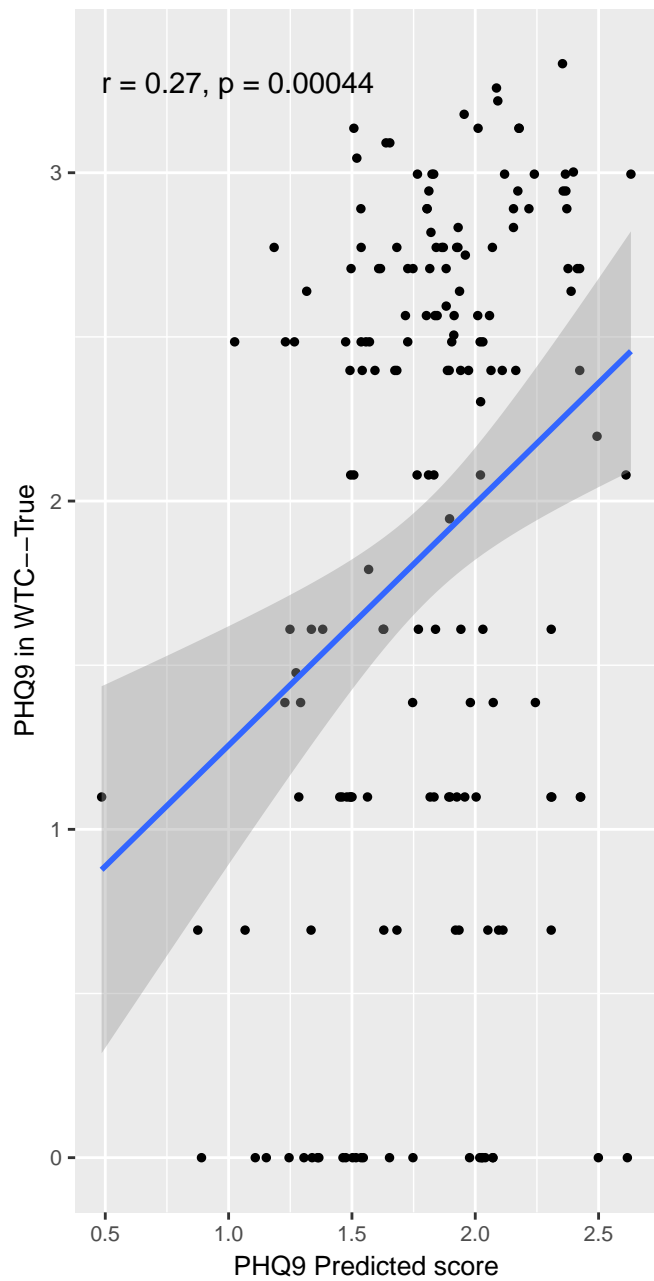
Train on PHQ9 of batch 3

Test on batch 4 and Mostafavi

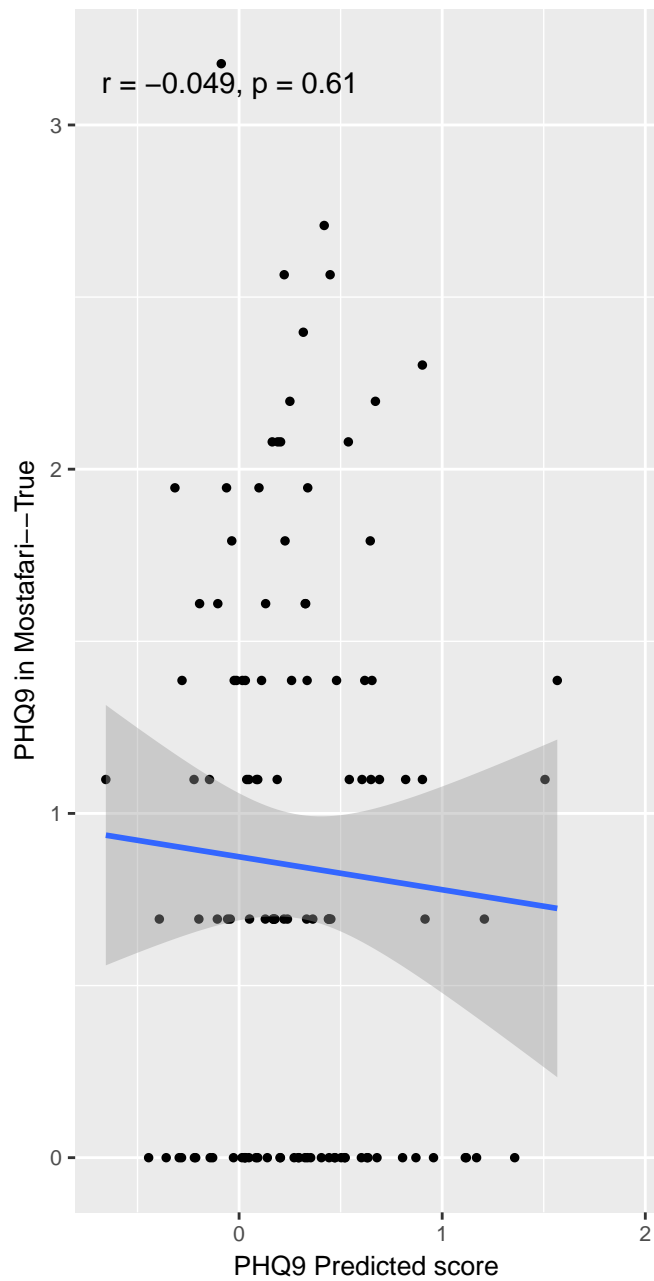
Prediction Model on MDD of Batch 4 and Mostafavi:

AUC are 0.595345038791343 0.537903757415953 respectively

PHQ9 Predicted score vs PHQ9 by ElasticNet



PHQ9 Predicted score vs PHQ9 by ElasticNet



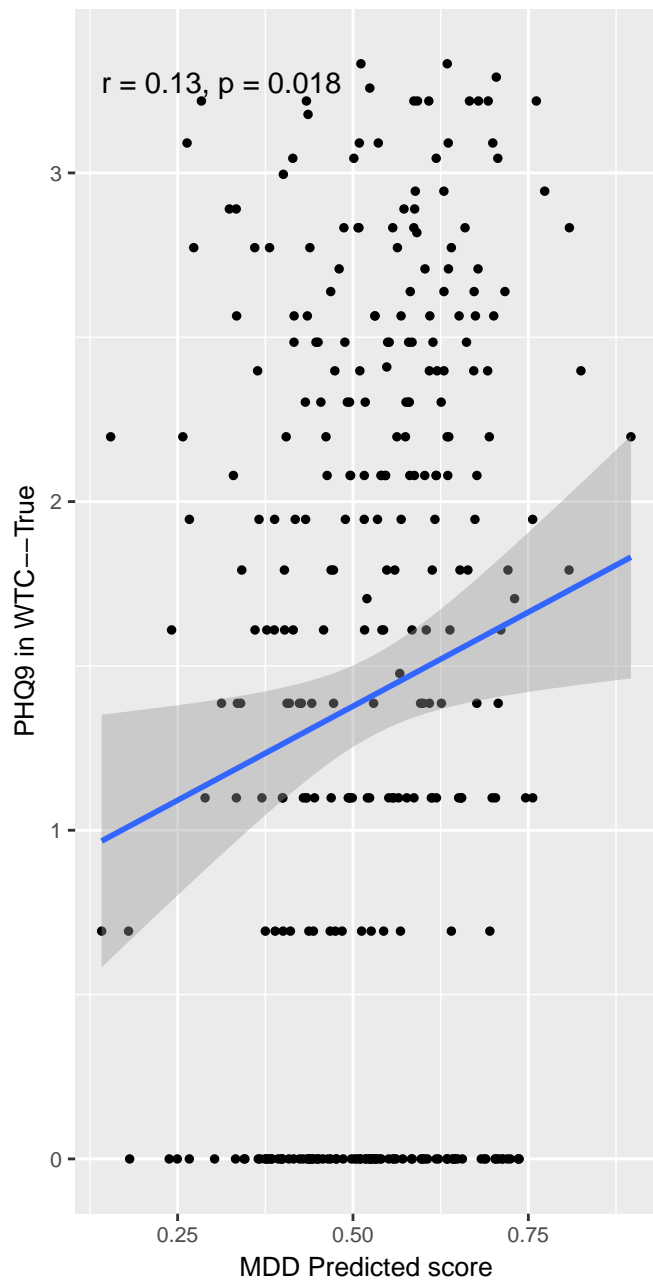
Train on MDD of batch 4

Test on batch 3 and Mostafavi

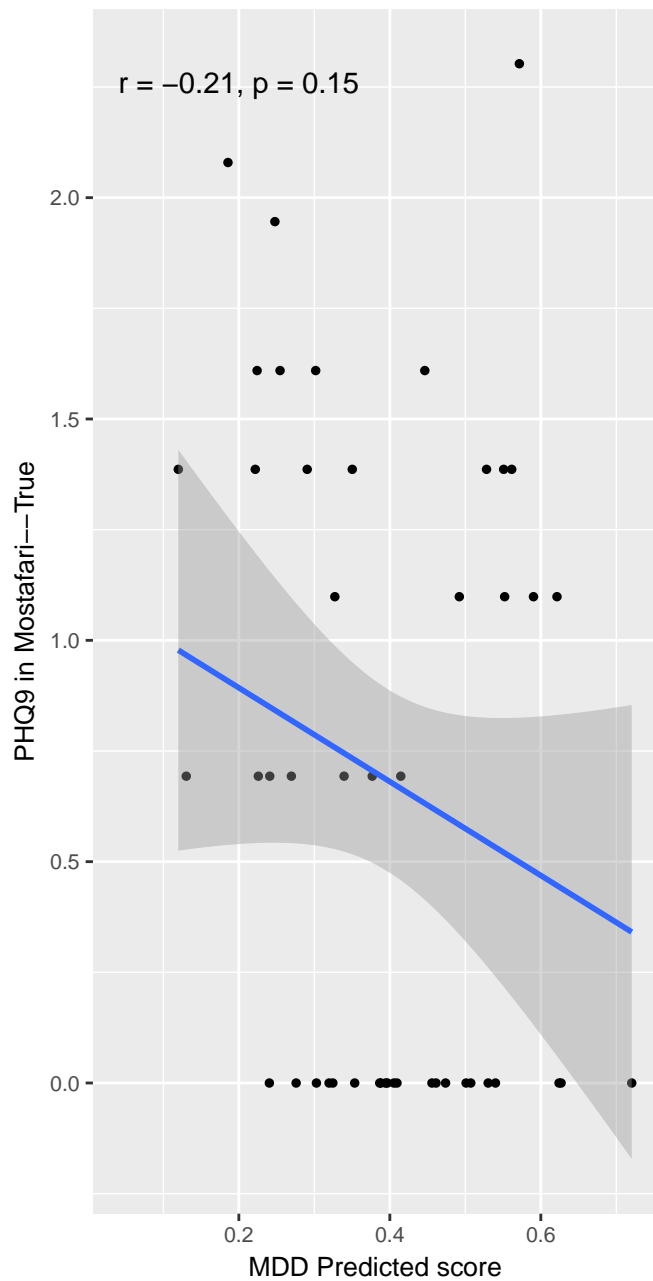
Prediction Model on MDD of Batch 3 and Mostafavi:

AUC are 0.56259228876128 0.529296875 respectively

MDD Predicted score vs PHQ9 by ElasticNet



MDD Predicted score vs PHQ9 by ElasticNet



Train on PHQ9 of batch 4

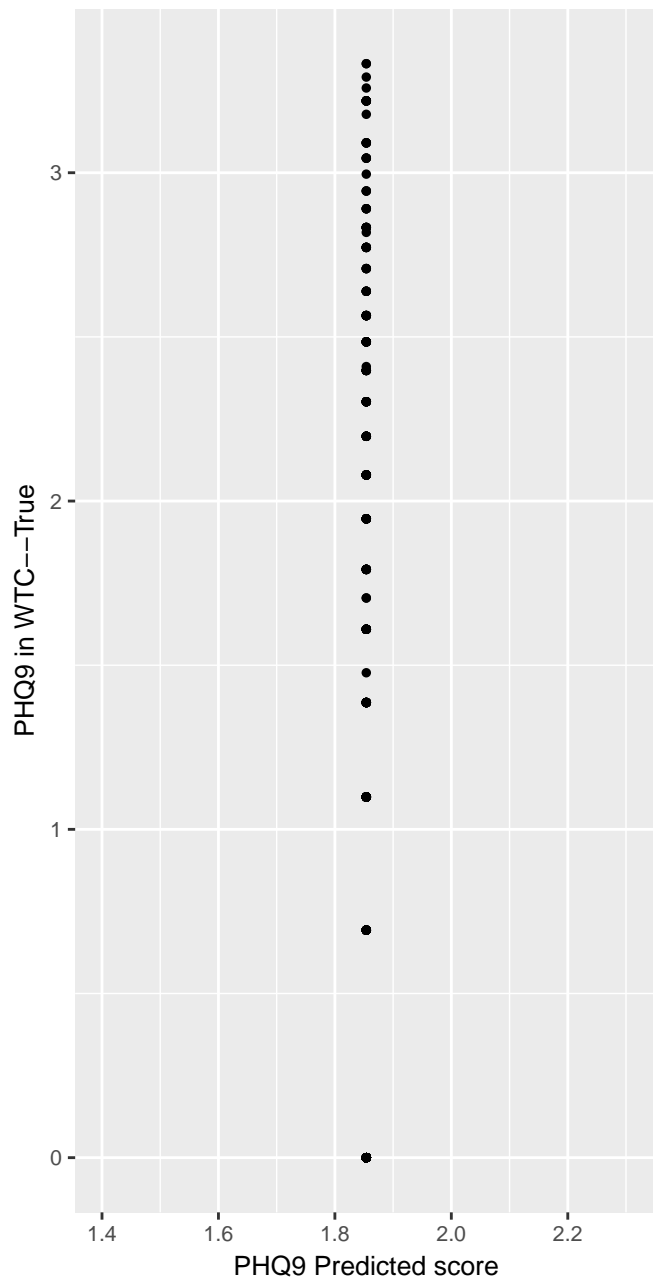
Test on batch 3 and Mostafavi

Prediction Model on MDD of Batch 3 and Mostafavi:

AUC are 0.5 0.5 respectively



PHQ9 Predicted score vs PHQ9 by ElasticNet



PHQ9 Predicted score vs PHQ9 by ElasticNet

