Group AF report of heart rate variability data analysis with self-organizing map

Background

This is the u-matrices of self-organizing map algorithm which implemented on the datasets of athletics. The output map size here is 20*20 and the epoch here is 15. And the parameter for SOM here is:

normalization = 'var'

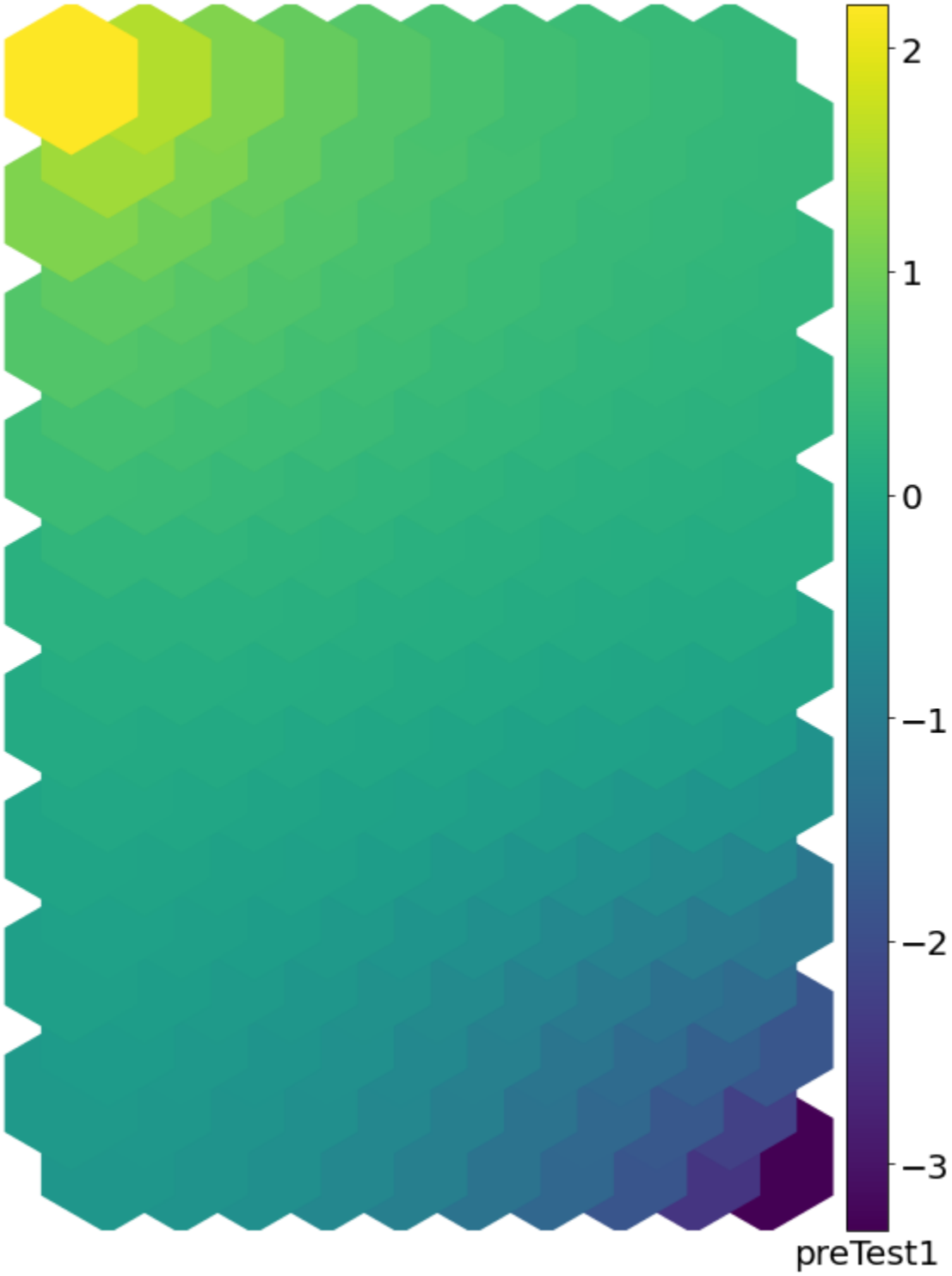
initialization='random'

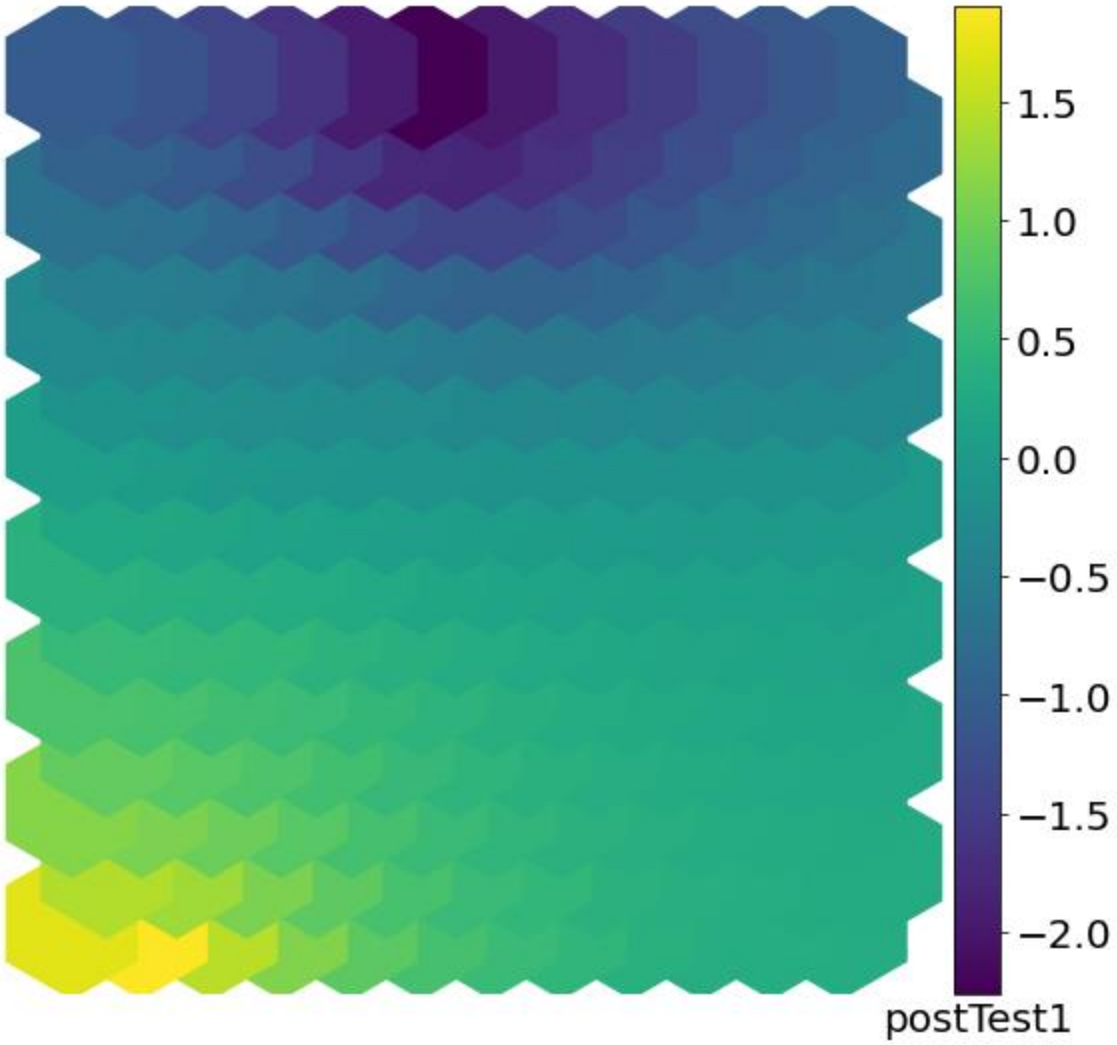
component_names=names, lattice="hexa"

neighborhood='gaussian'

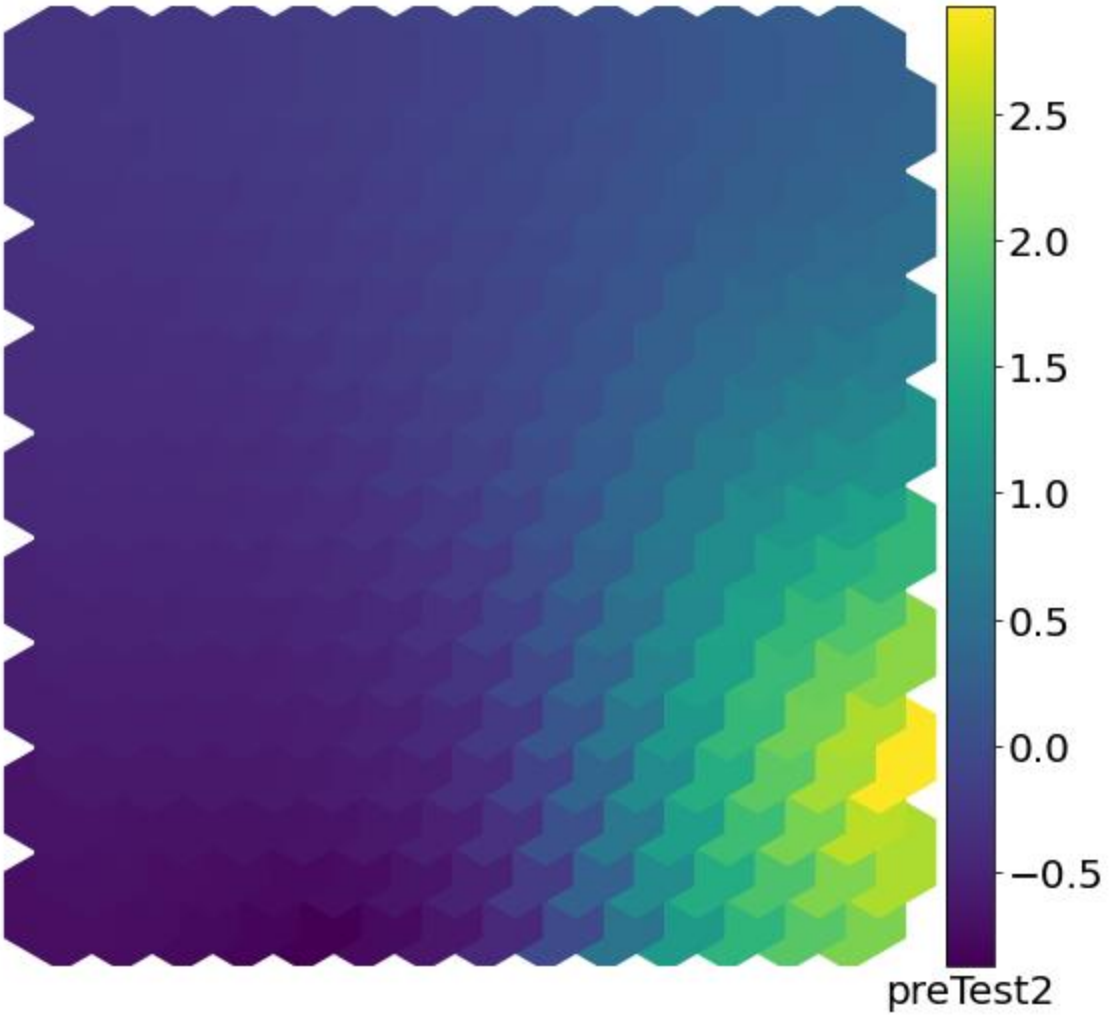
We can change initialization to PCA and neighborhood to bubble if we want to.

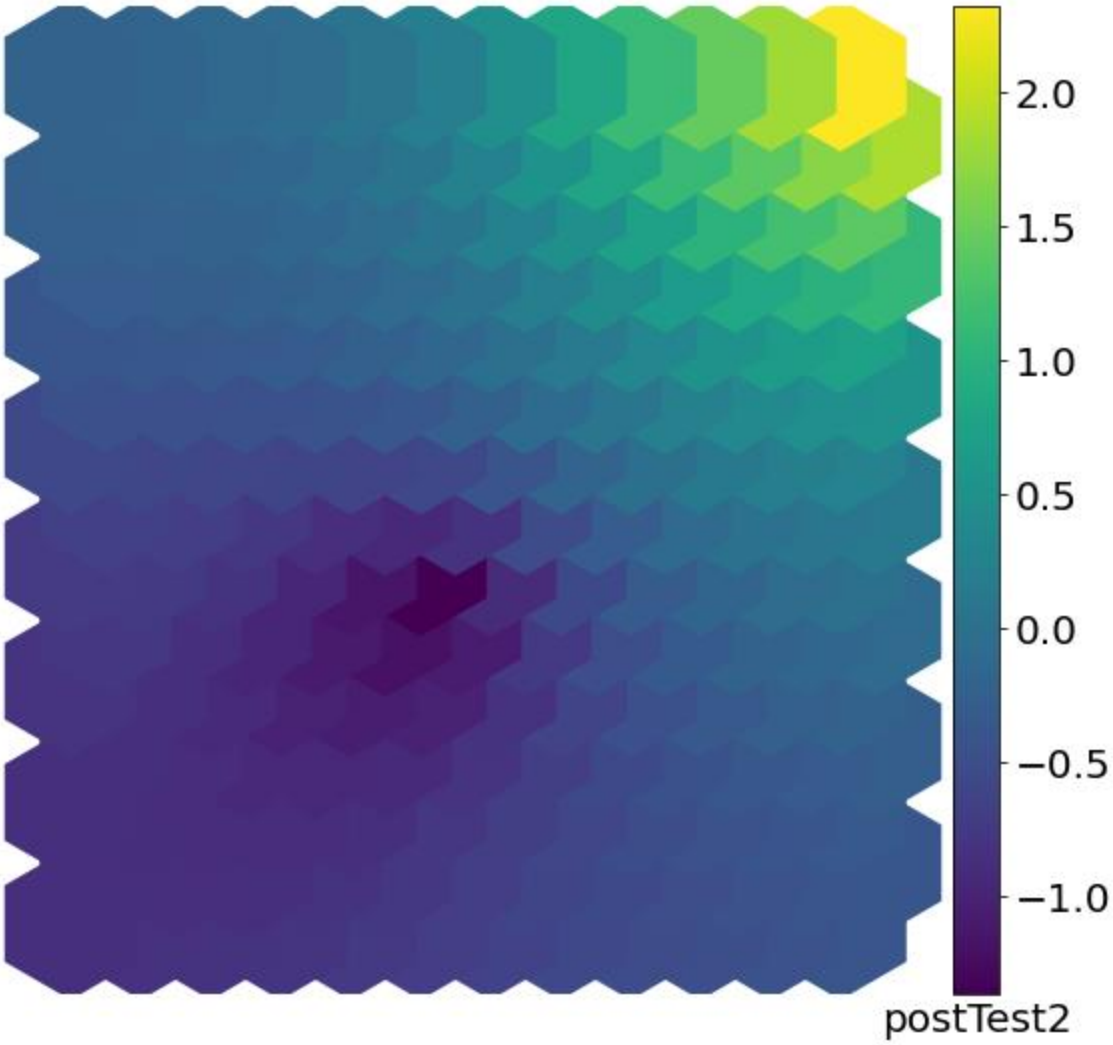
Athletic one:



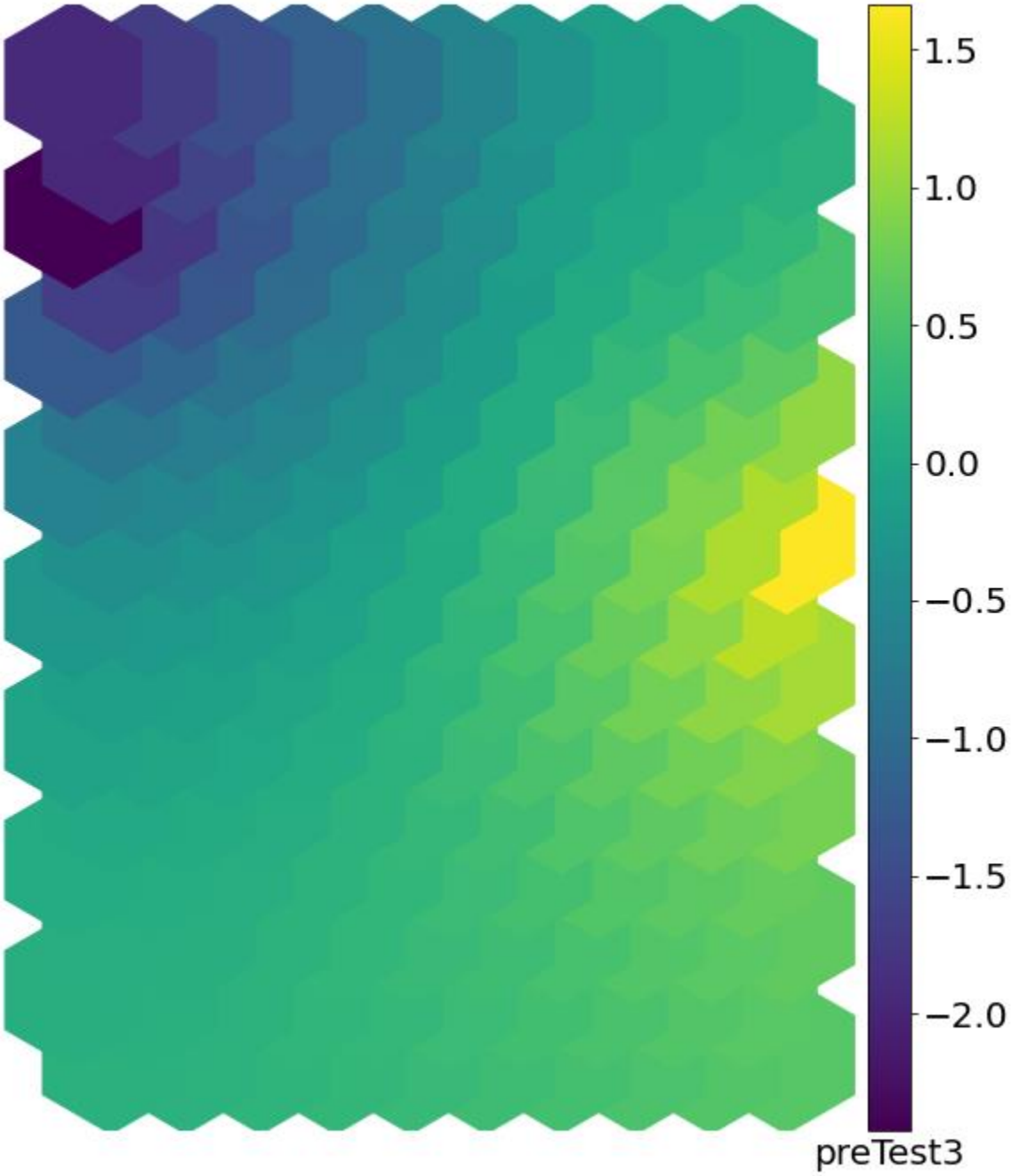


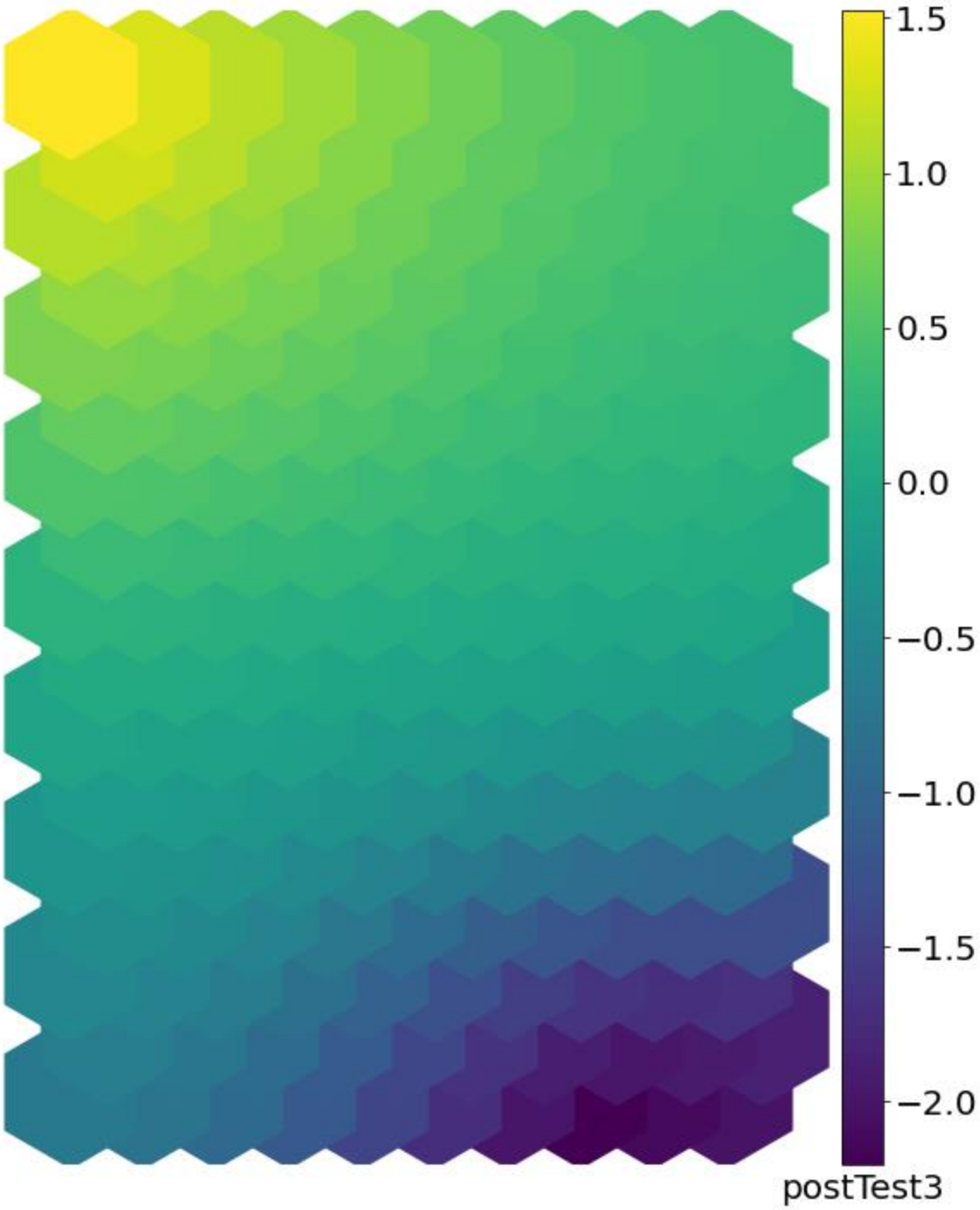
Athletic two:


2.5
2.0
1.5
1.0
0.5
0.0
−0.5
preTest2

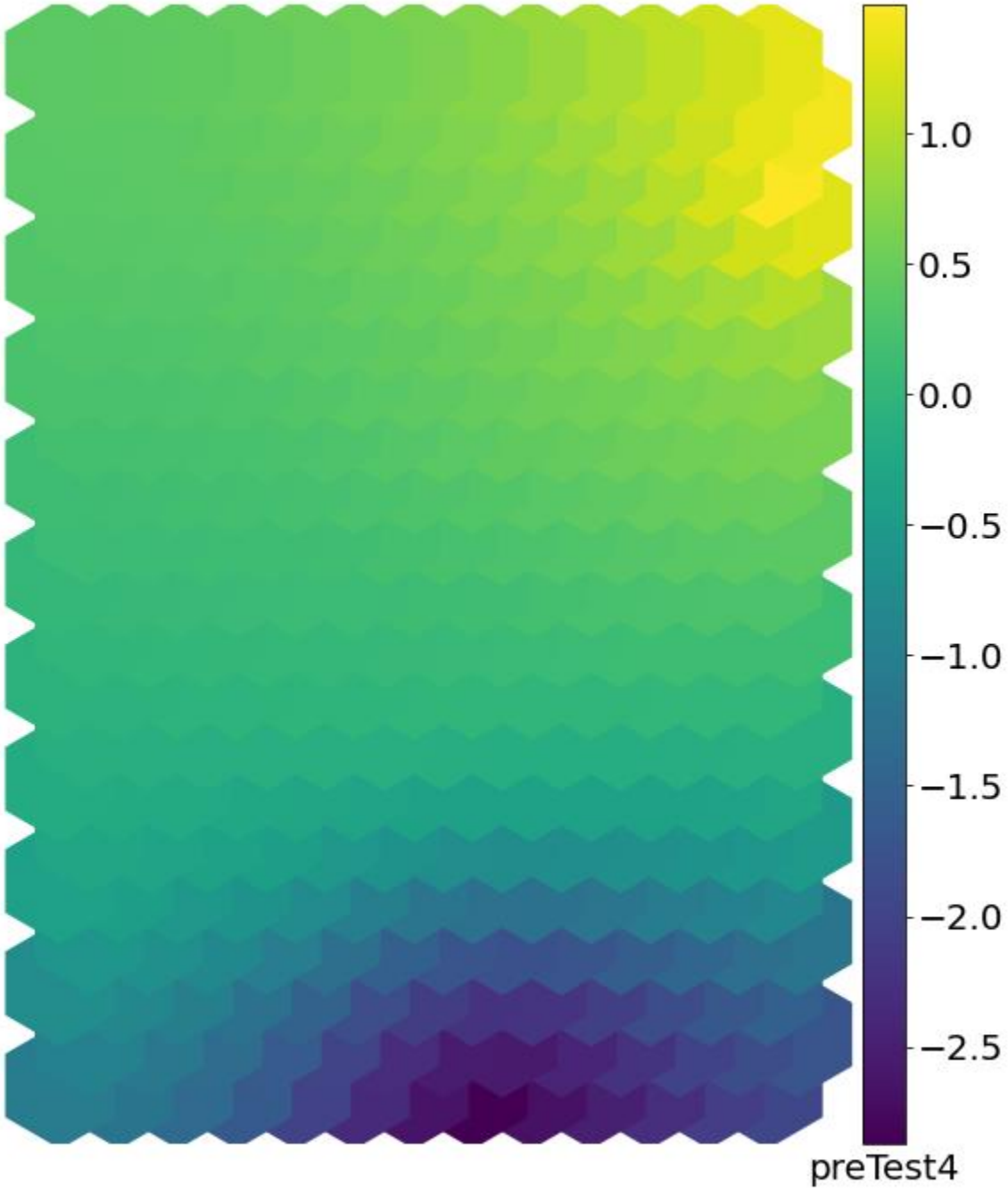

2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
postTest2

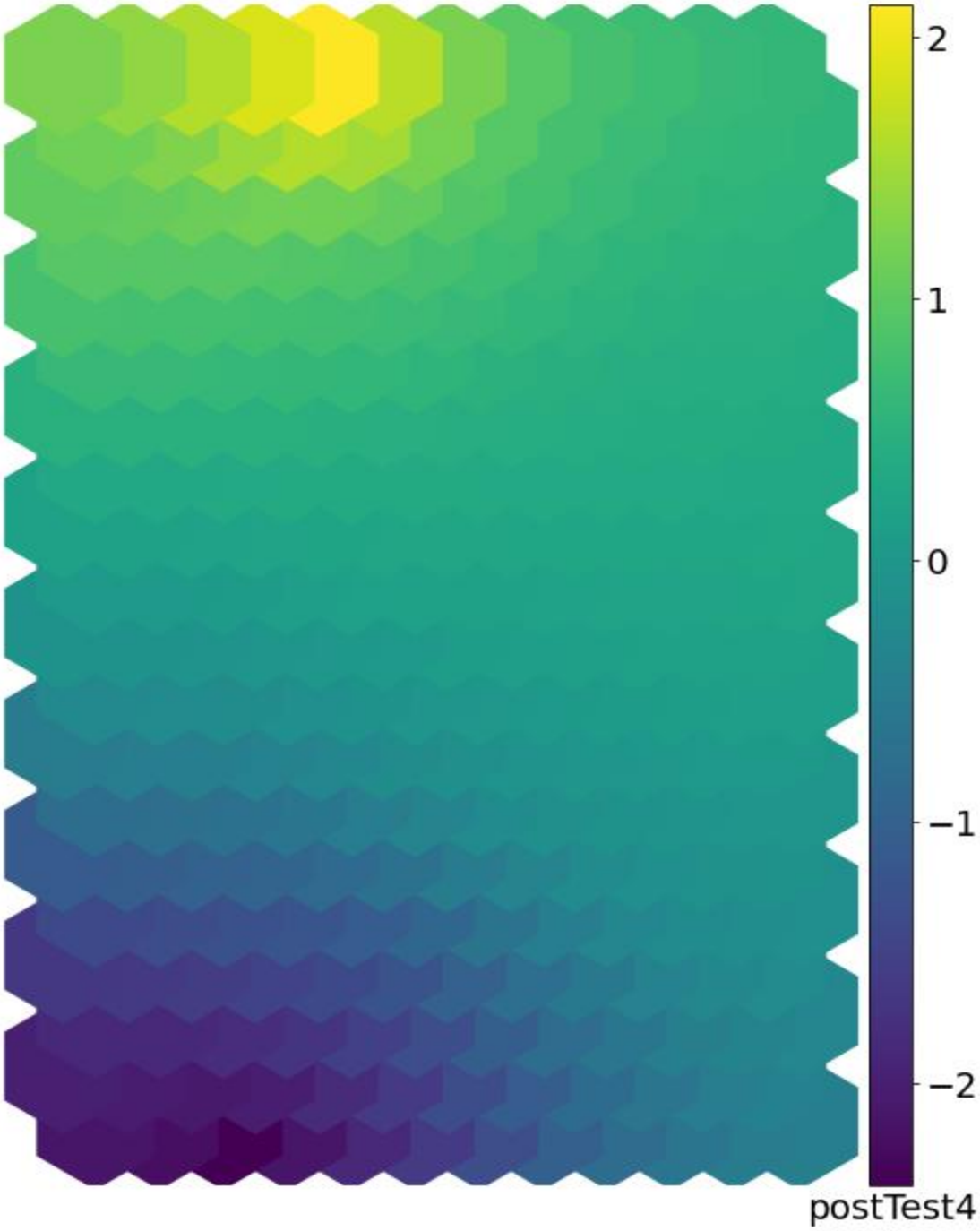
Athletic three:



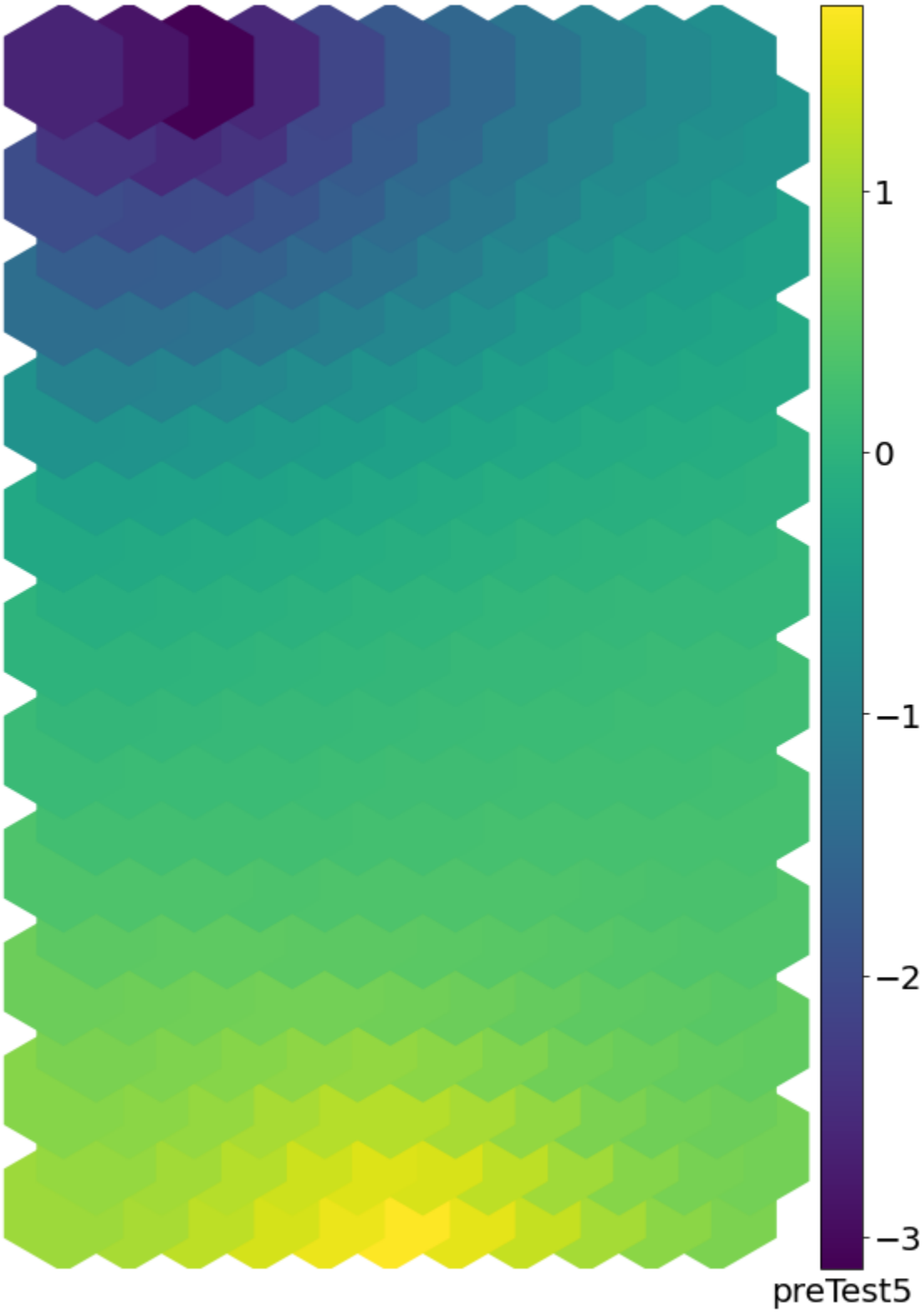

1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
postTest3

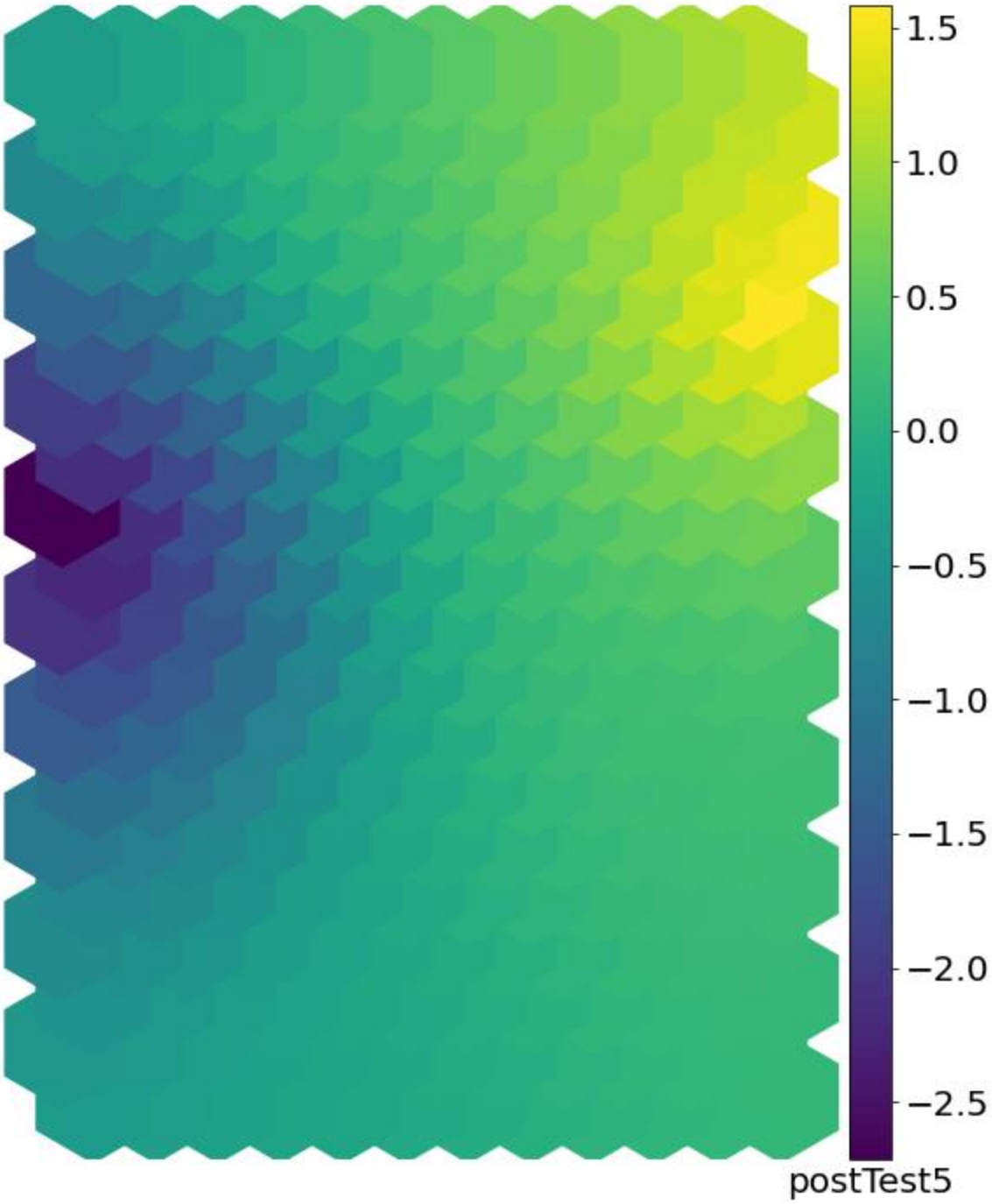
Athletic four:



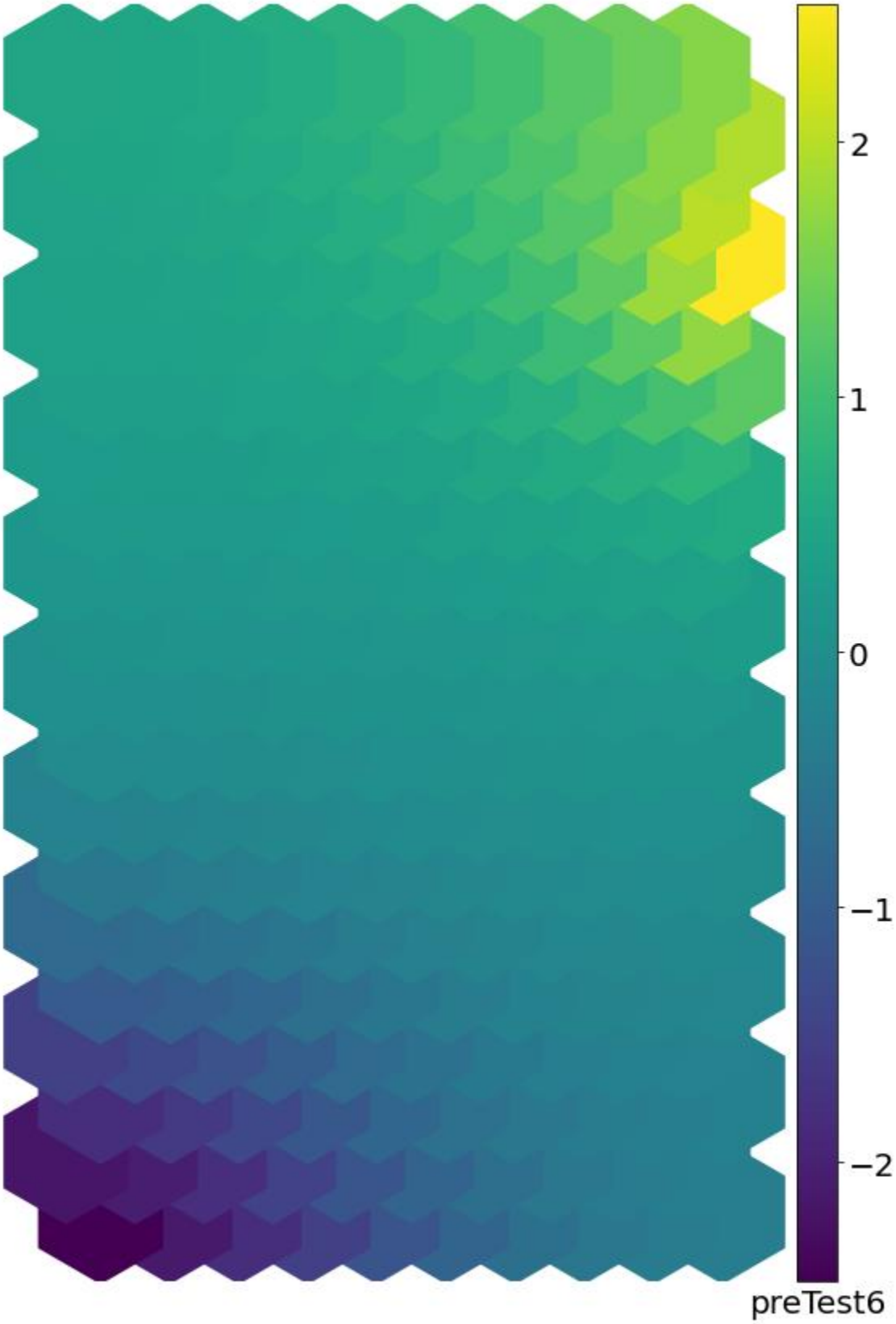

2
1
0
−1
−2
postTest4

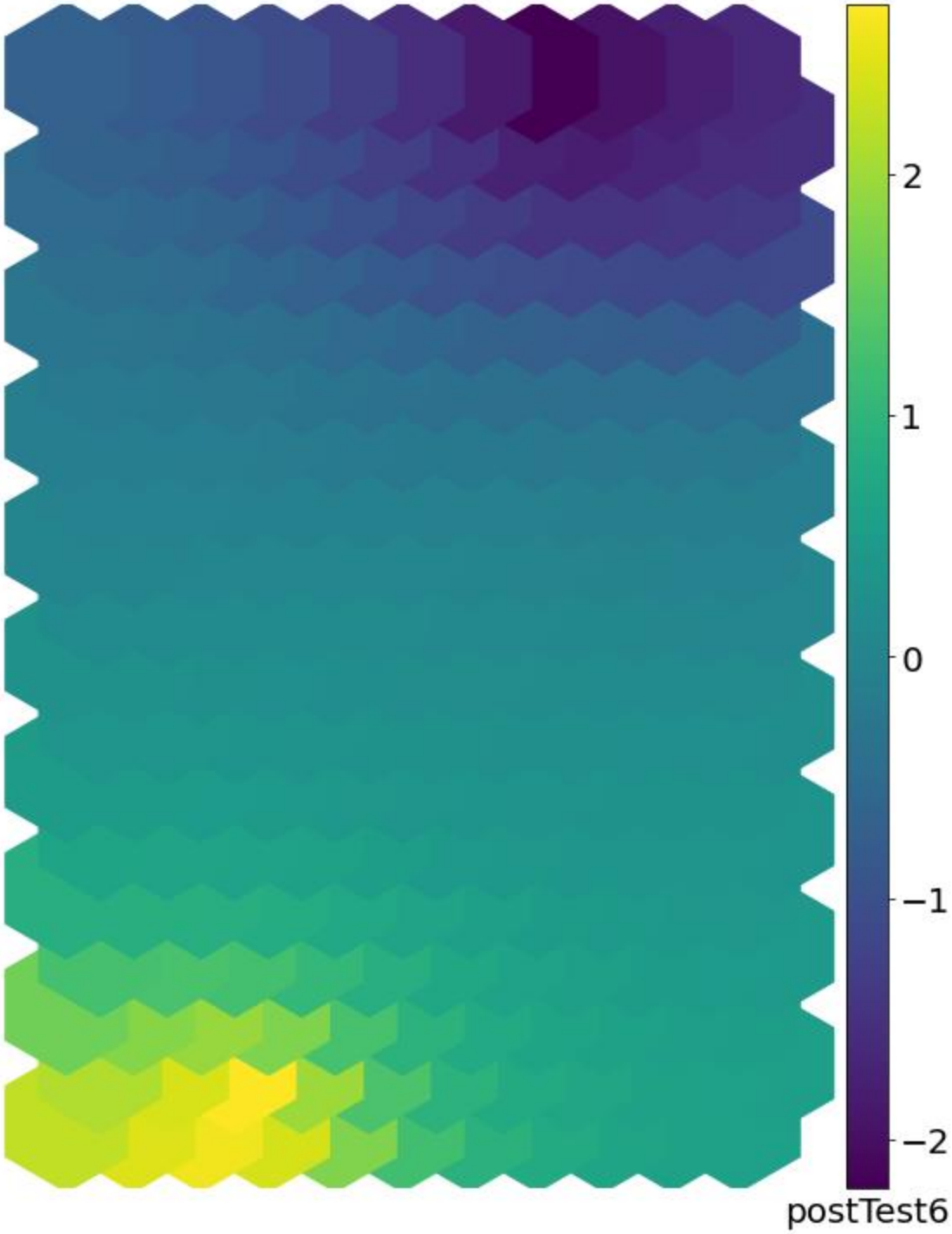
Athletic five:



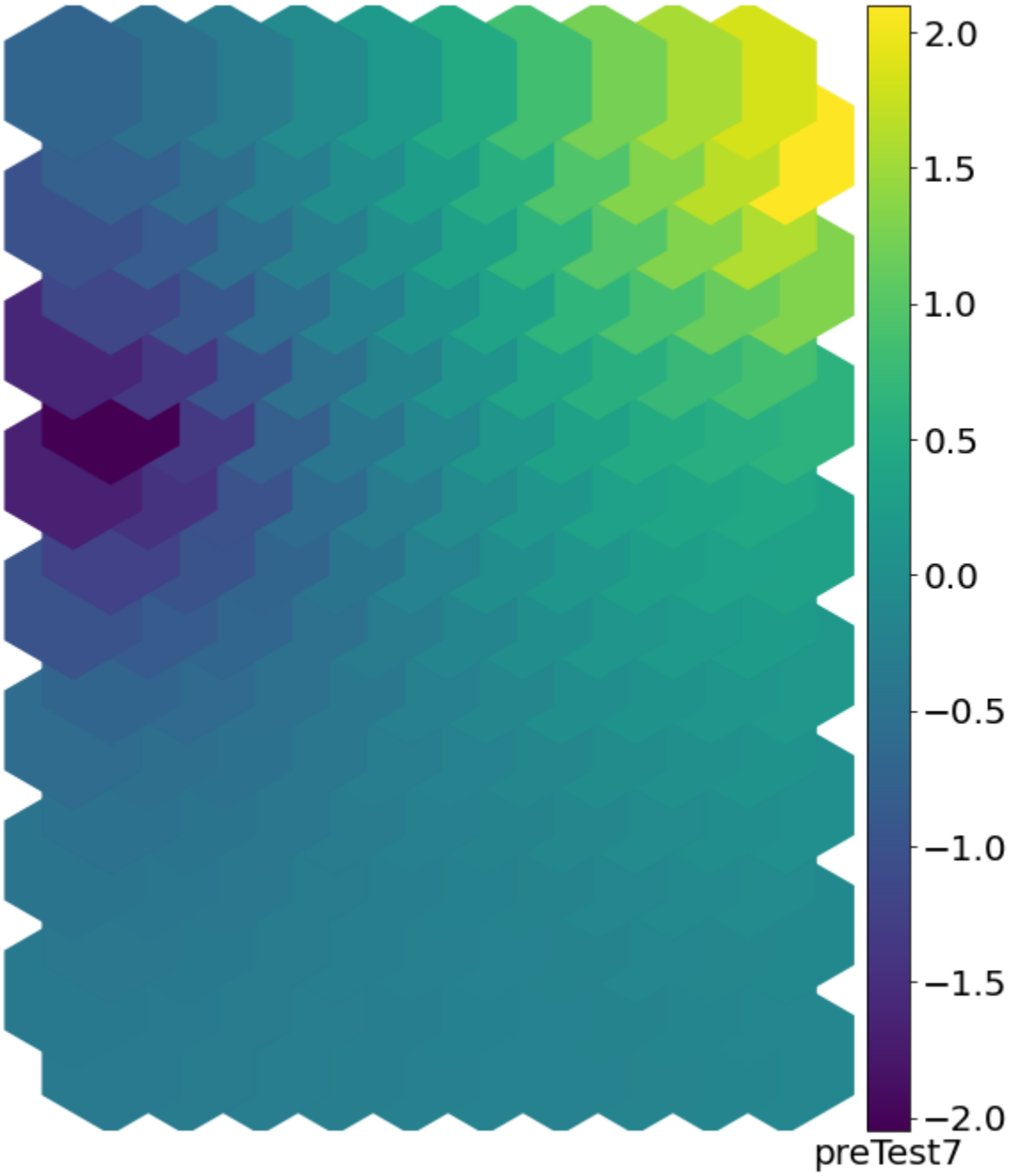

1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
postTest5

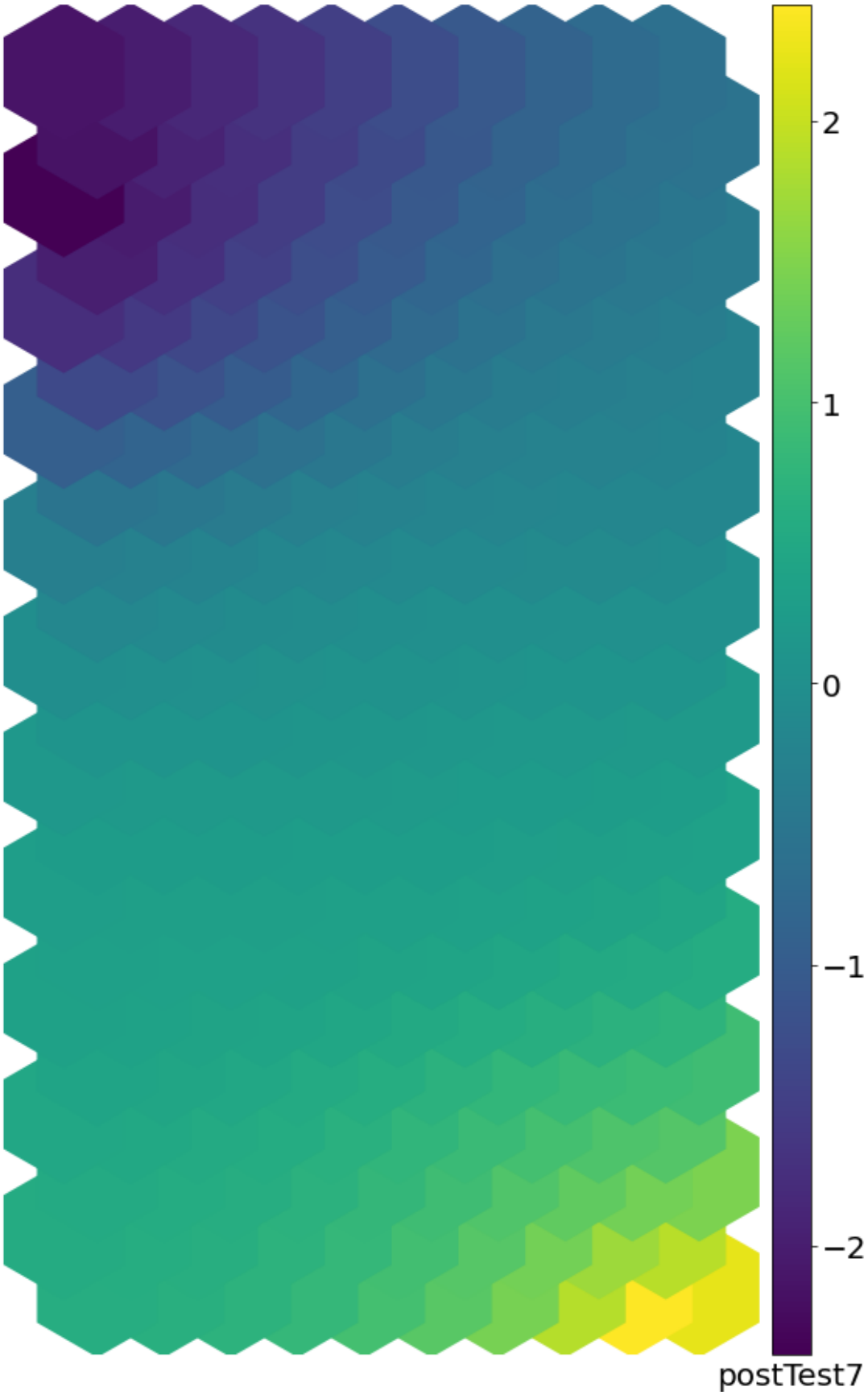
Athletic six:



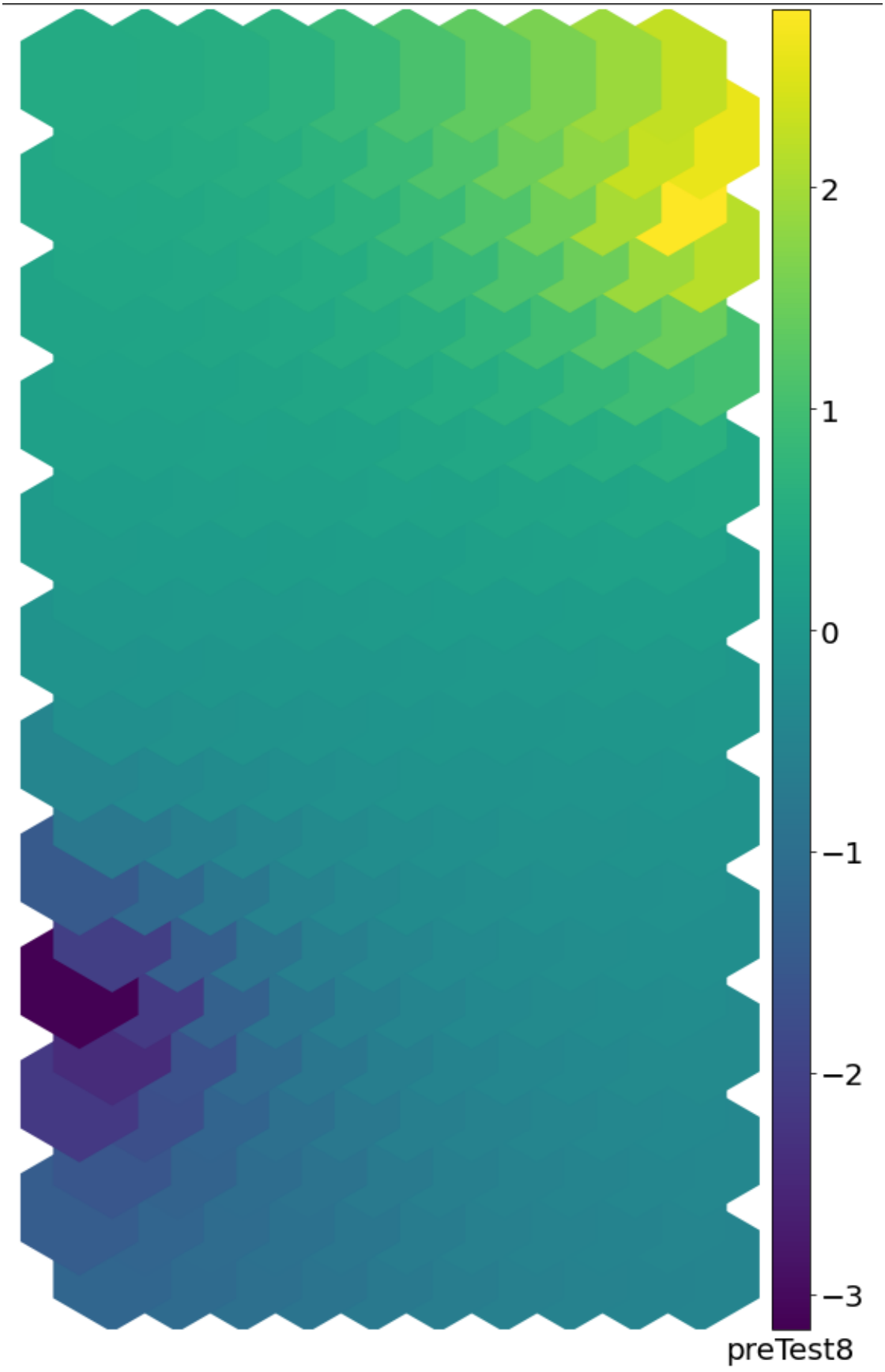

2
1
0
−1
−2
postTest6

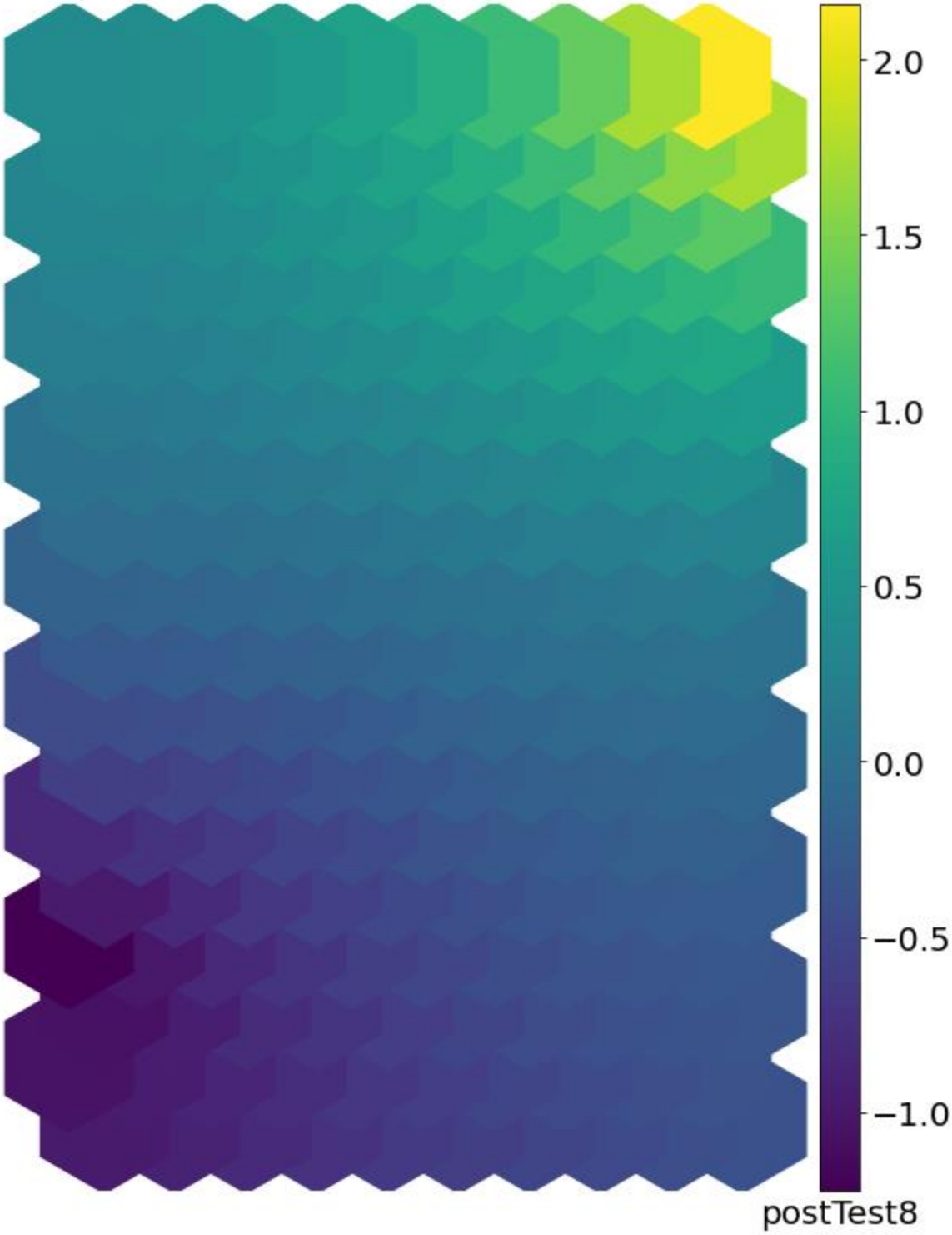
Athletic seven:



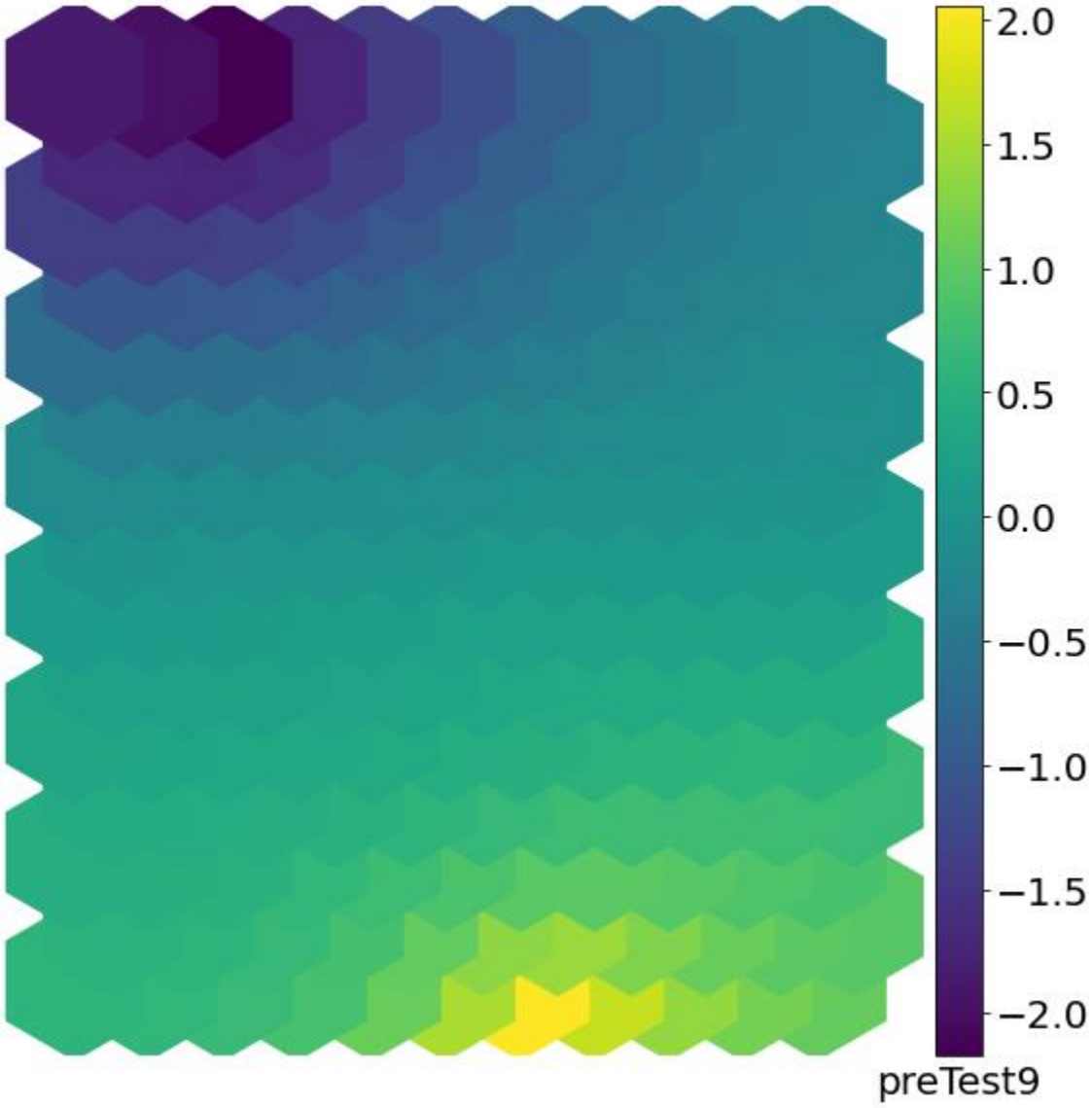

2
1
0
−1
−2
postTest7

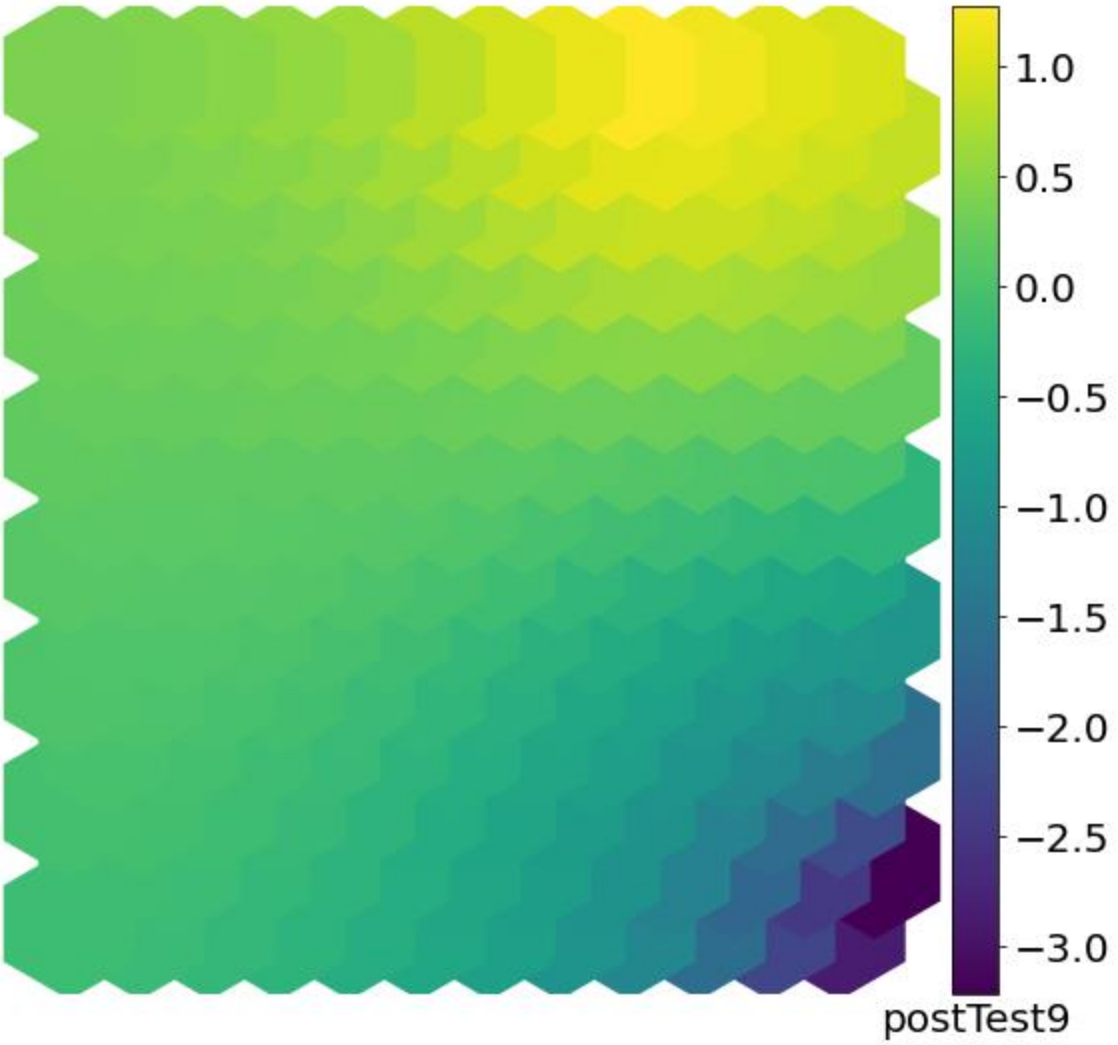
Athletic eight:


2
1
0
−1
−2
−3
preTest8

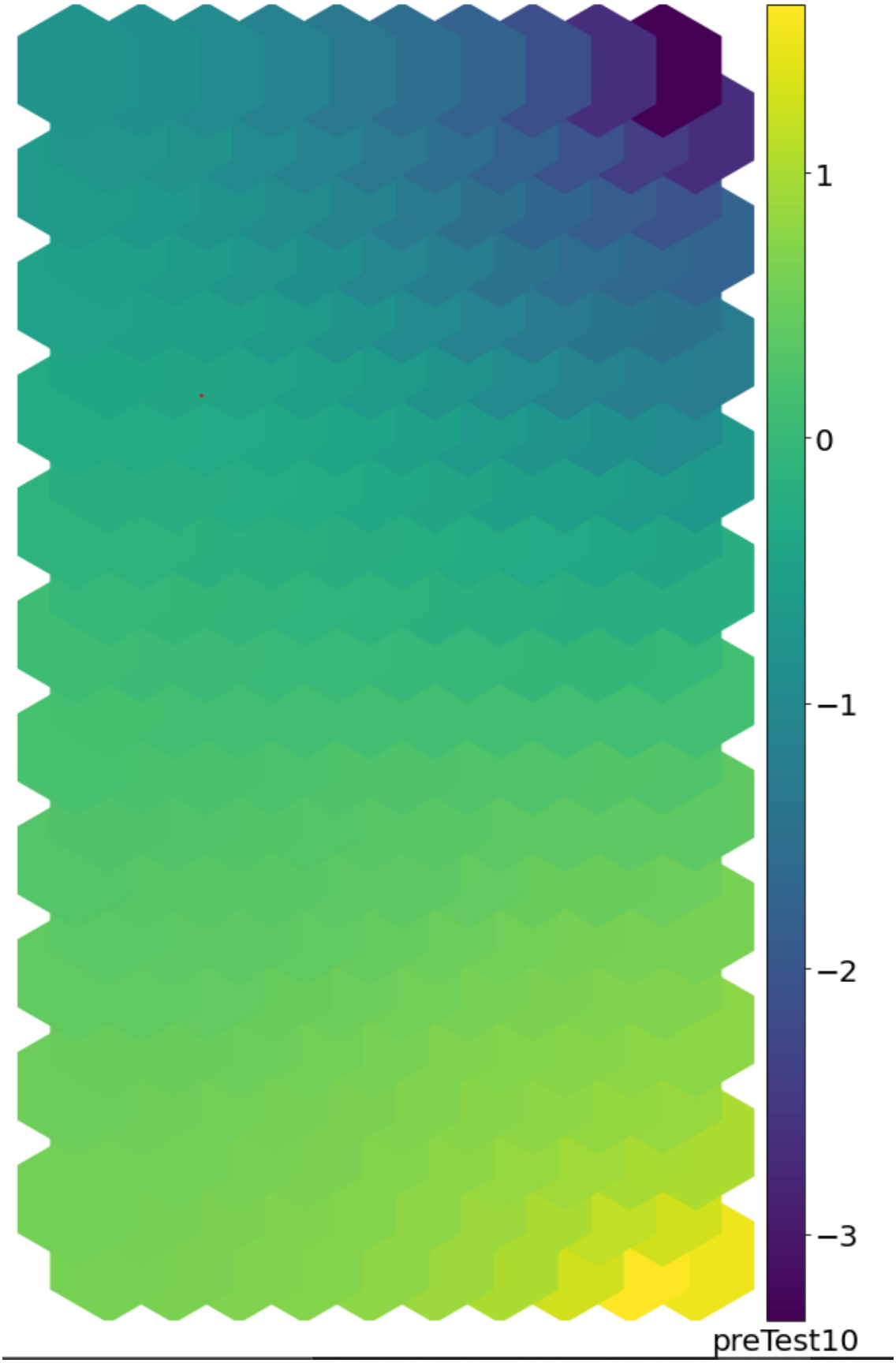

2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
postTest8

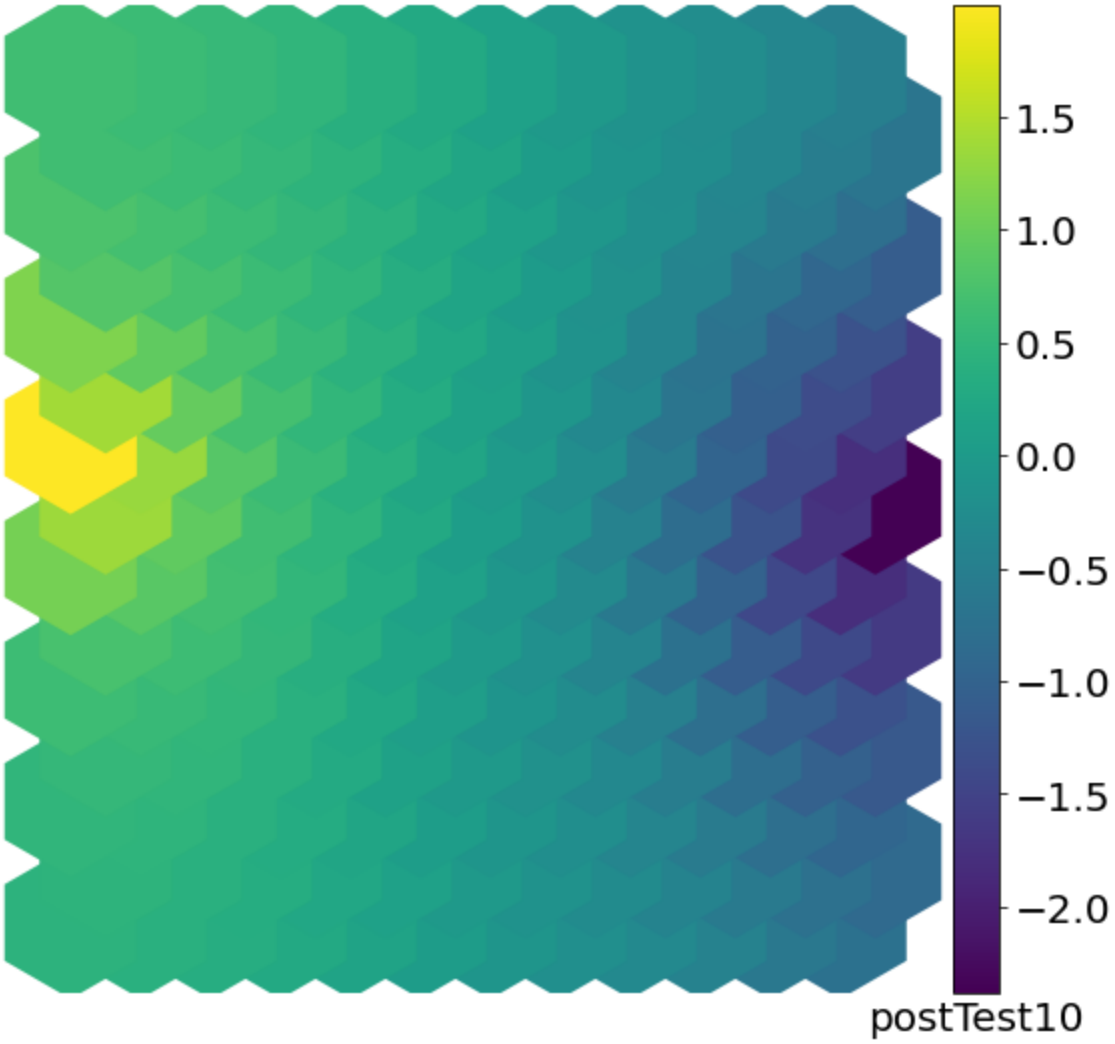
Athletic nine:



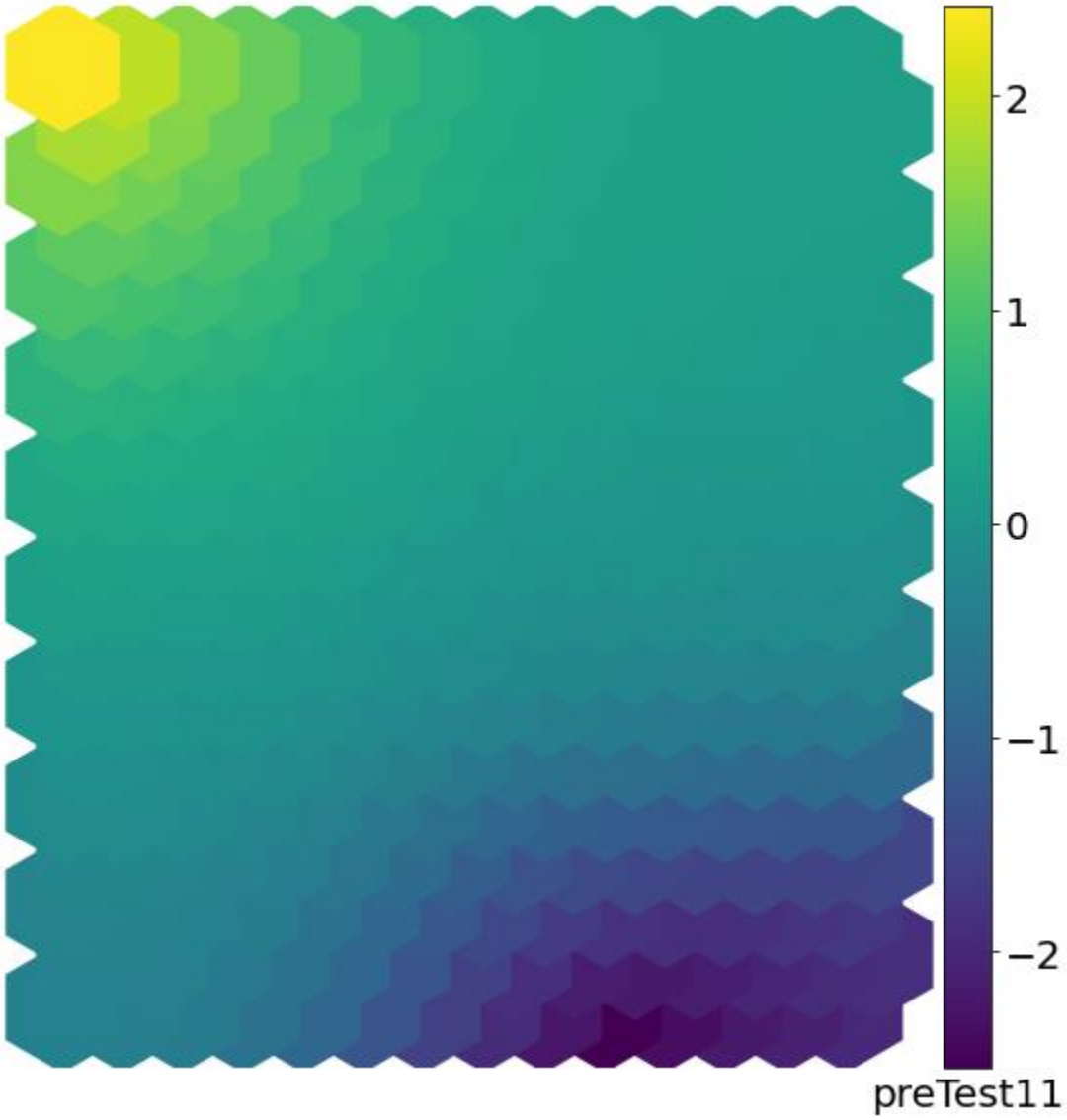

1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
postTest9

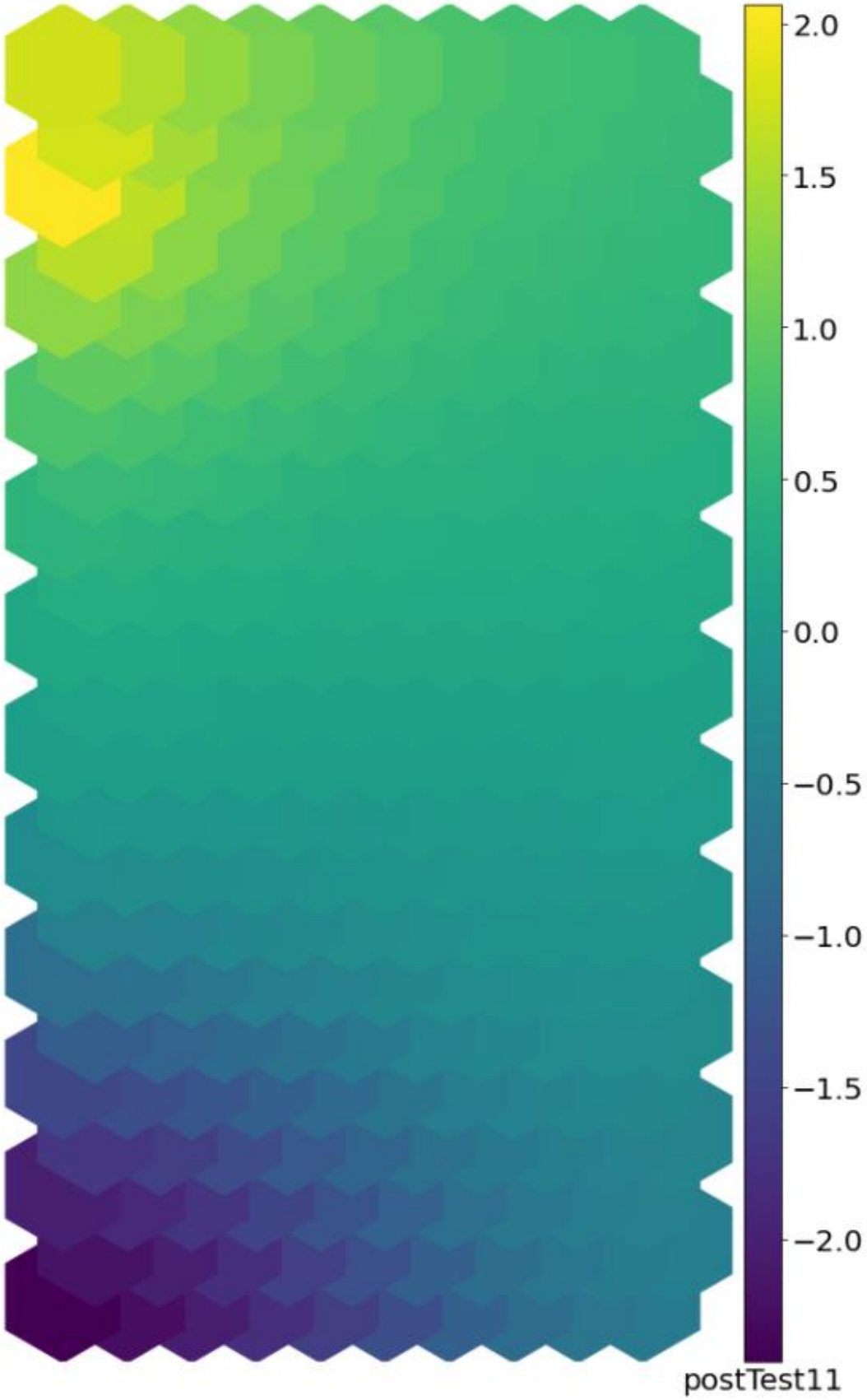
Athletic ten:


1
0
−1
−2
−3
preTest10

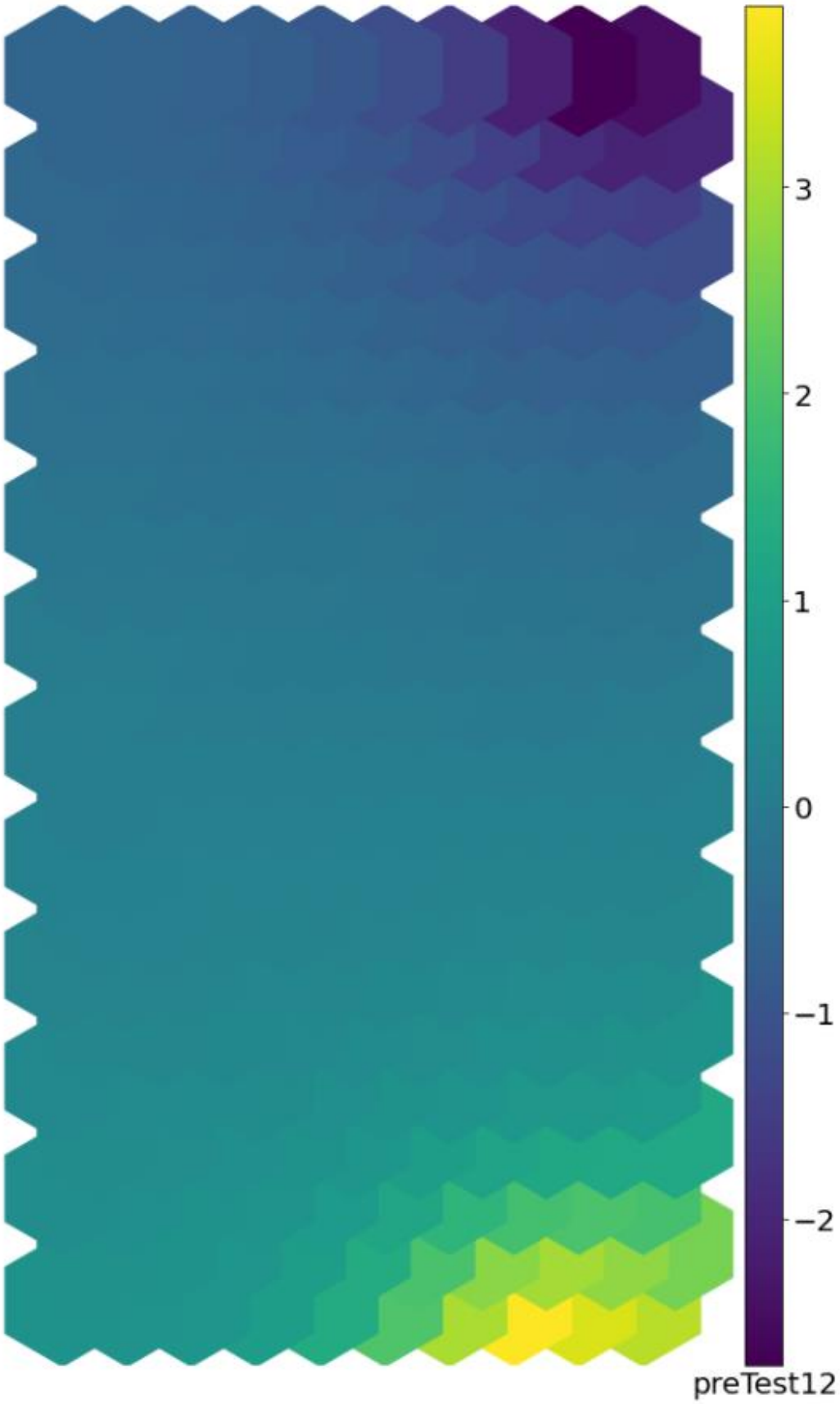

1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
postTest10

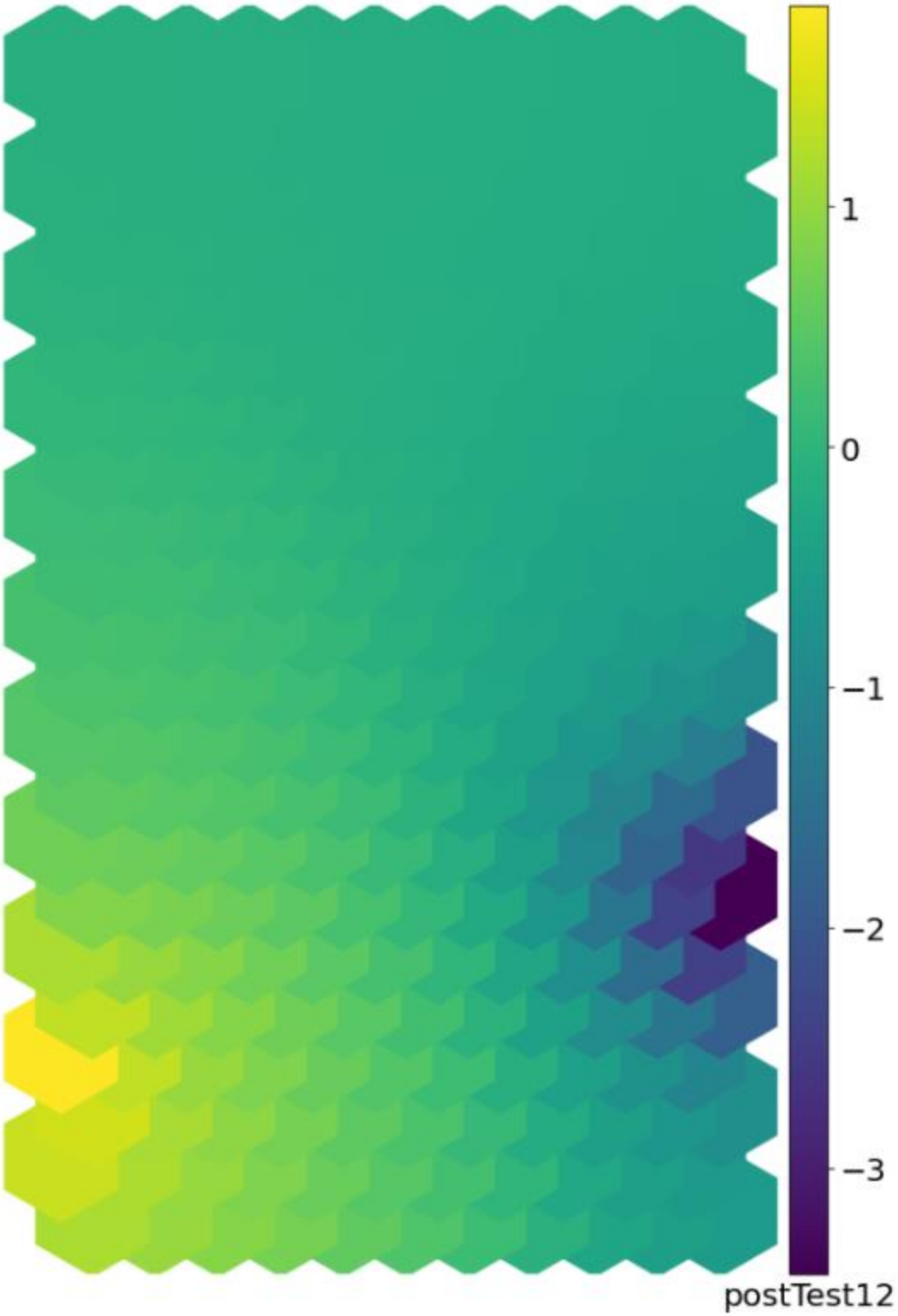
Athletic eleven



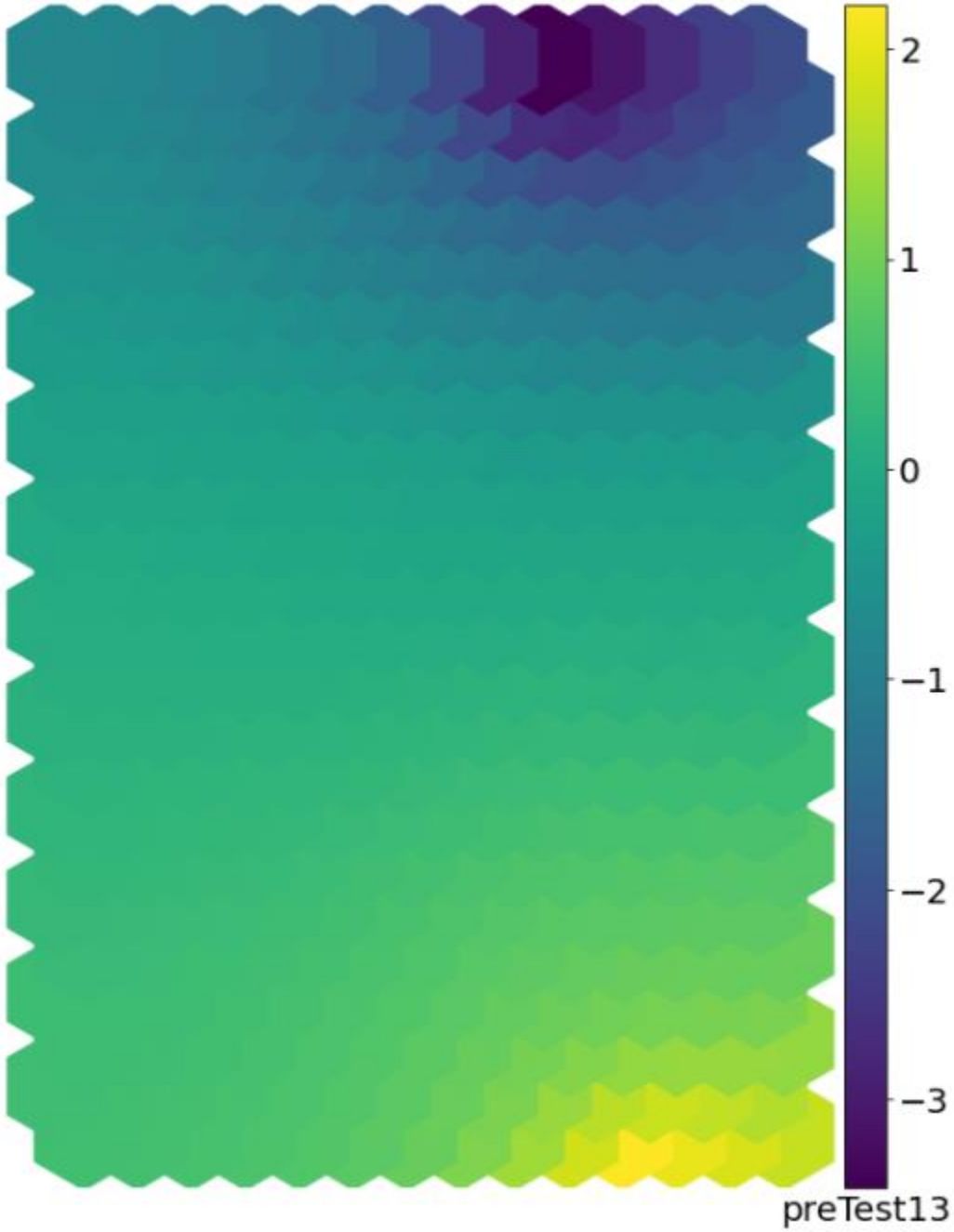

2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
postTest11

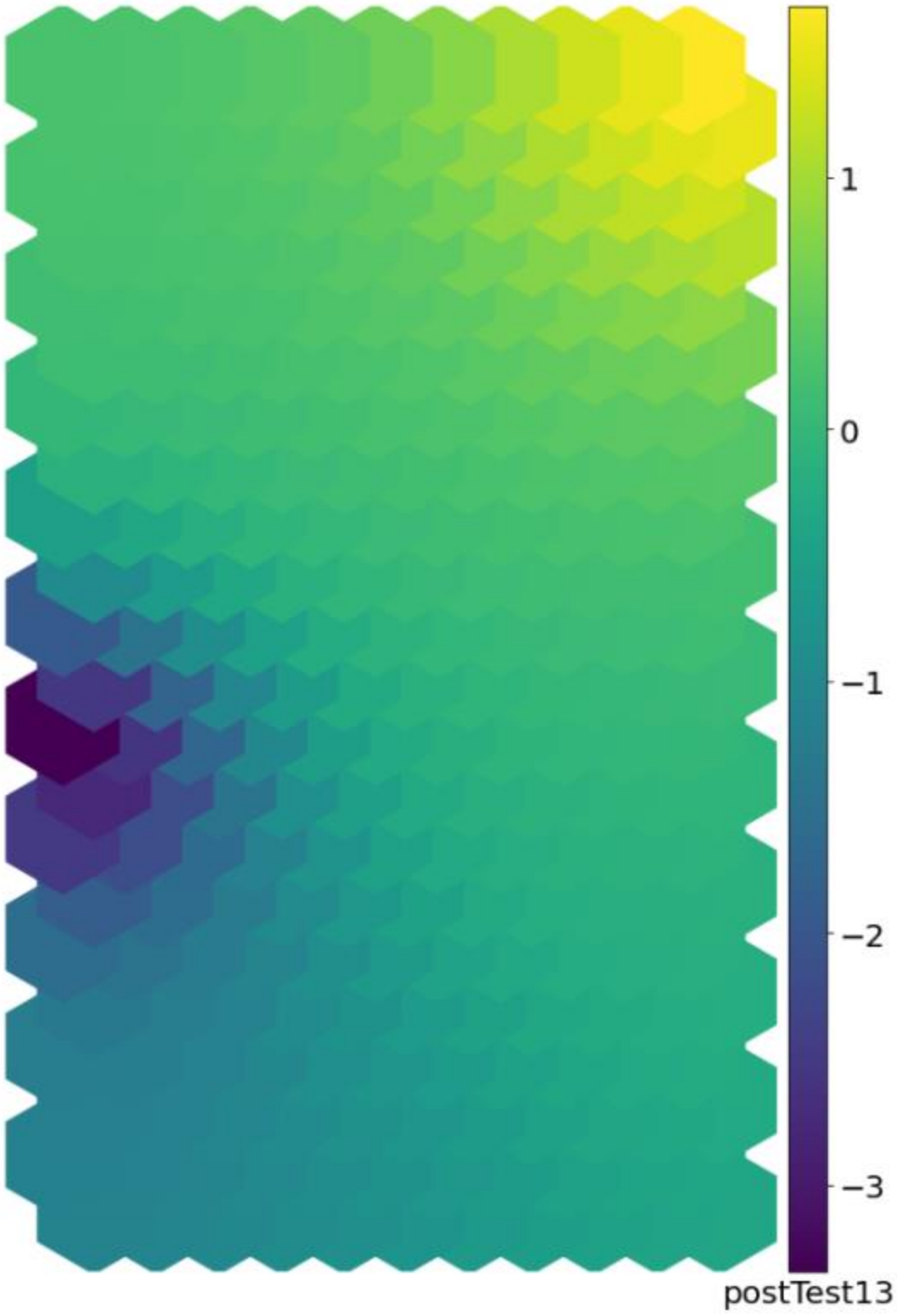
Athletic twelve:


3
2
1
0
−1
−2
preTest12

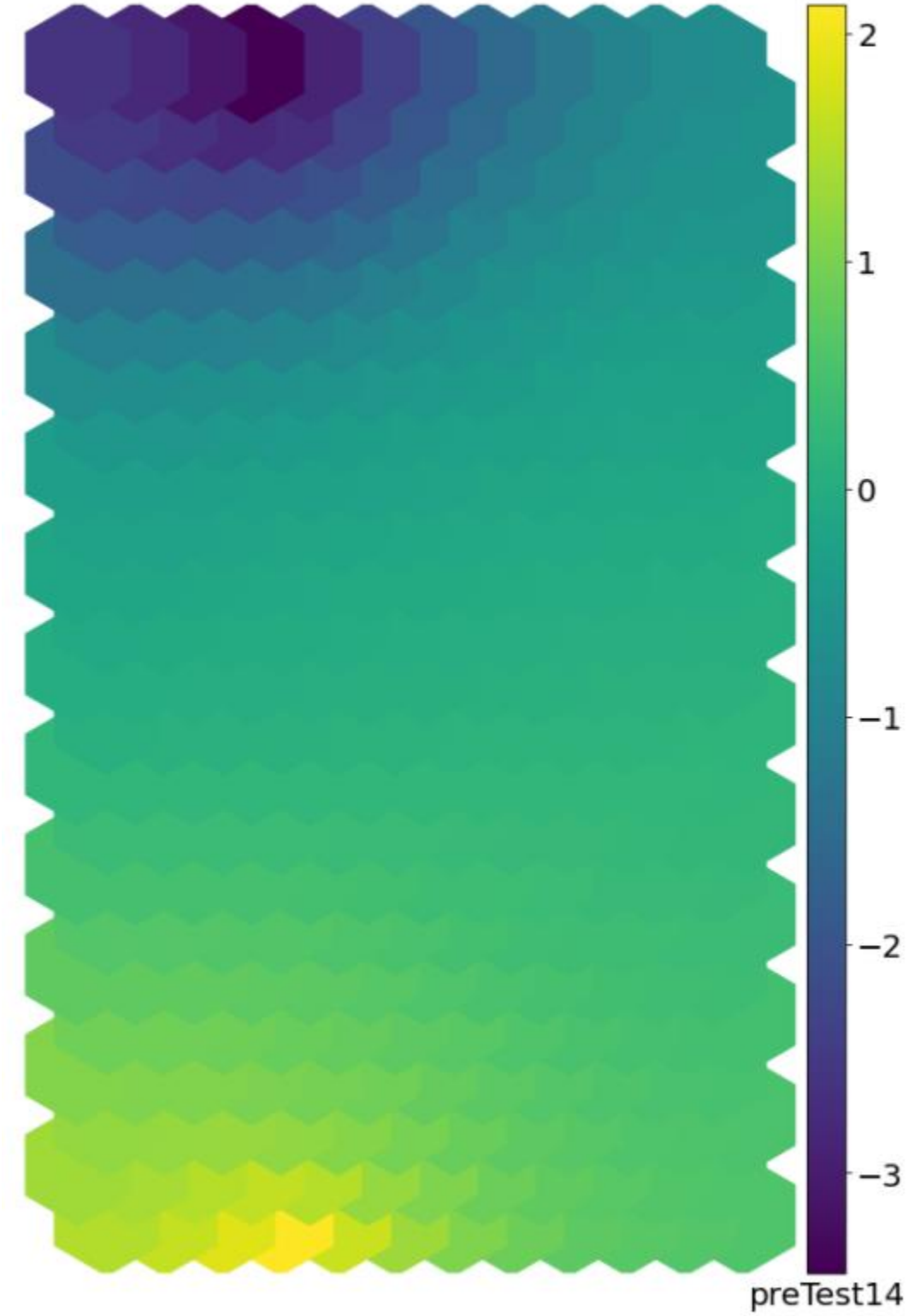

1
0
−1
−2
−3
postTest12

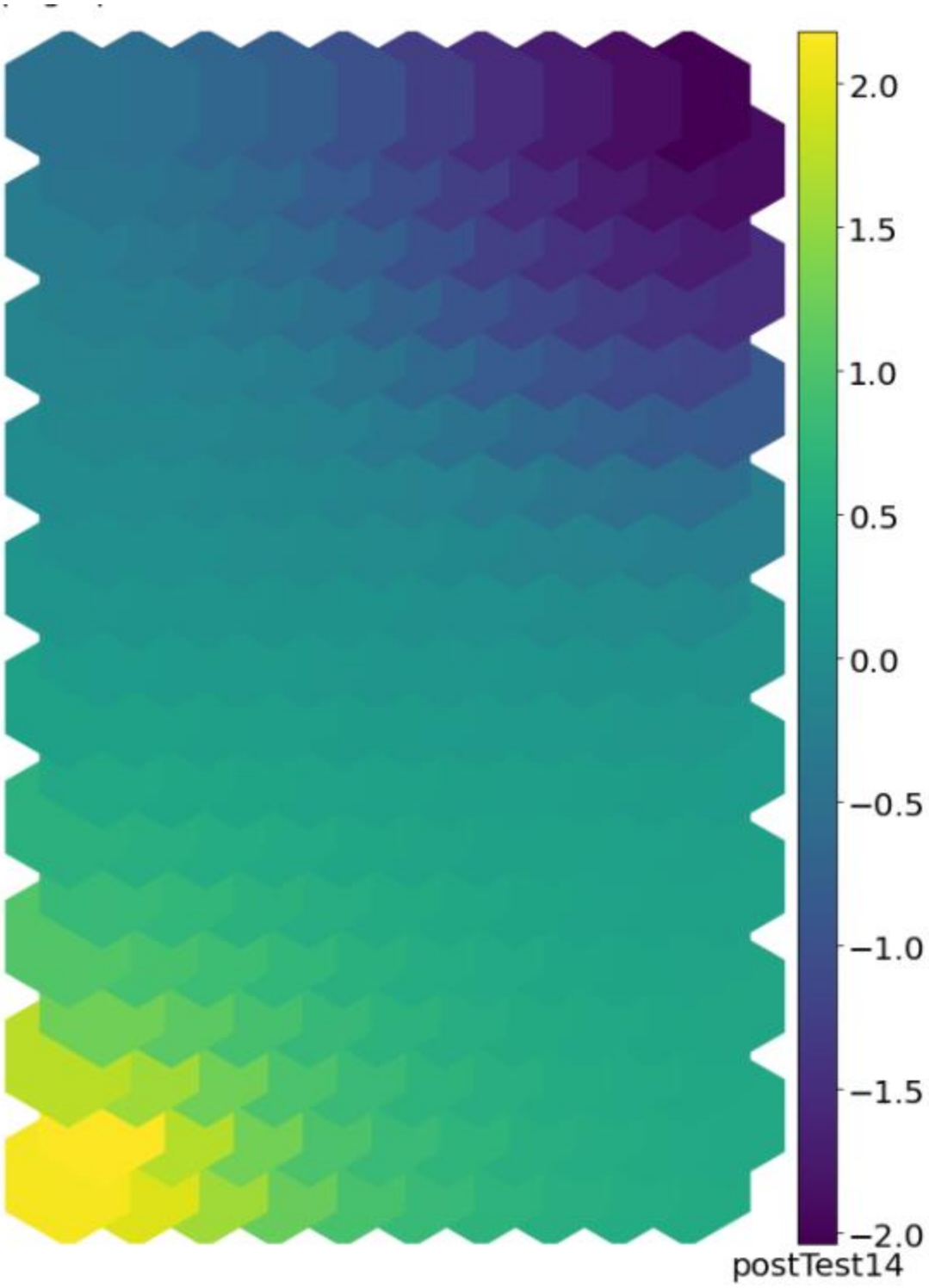
Athletic thirteen:




1
0
−1
−2
−3
postTest13

Athletic fourteen:




2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
postTest14