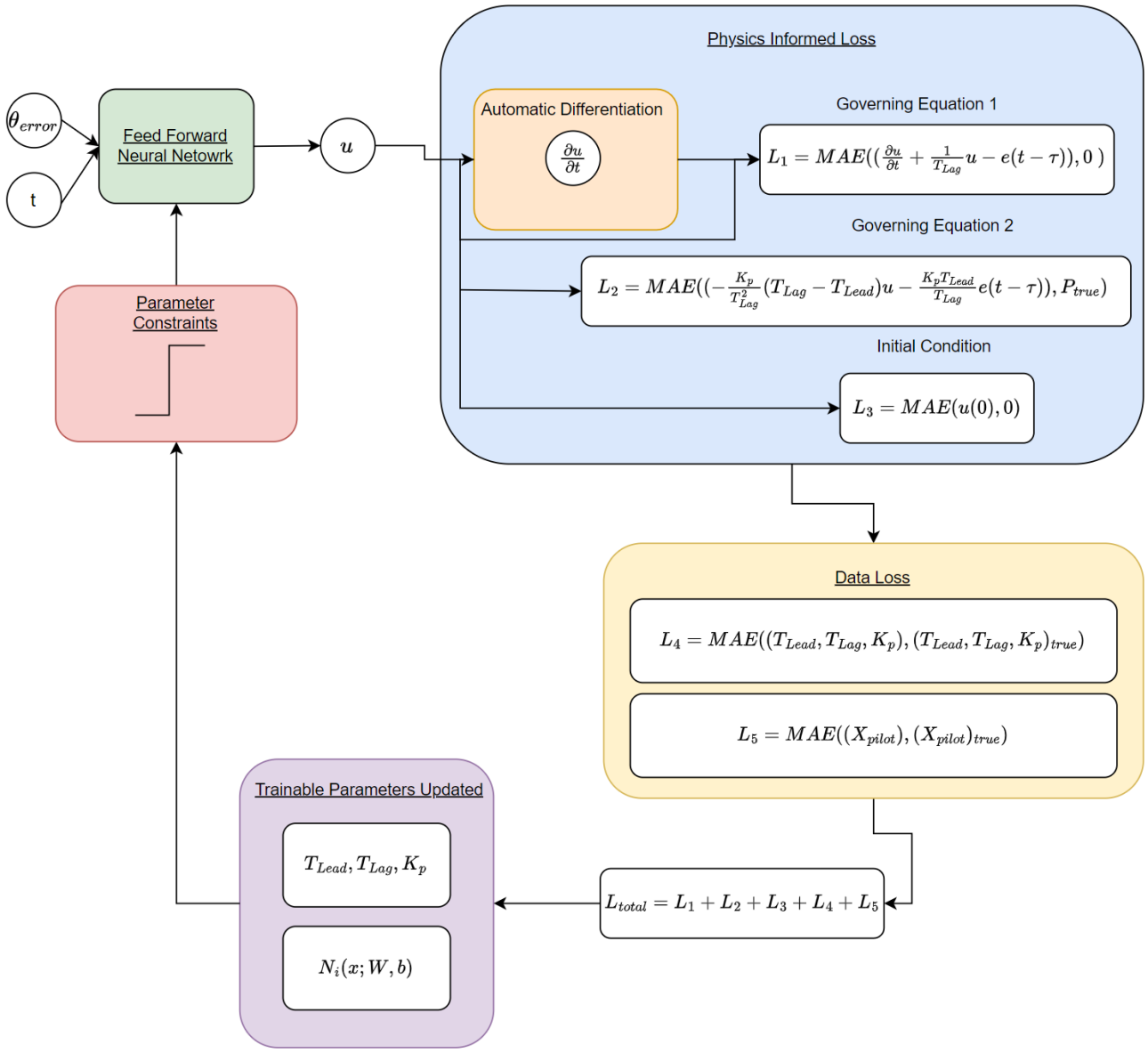
Google Colab Code 1.2 Notes

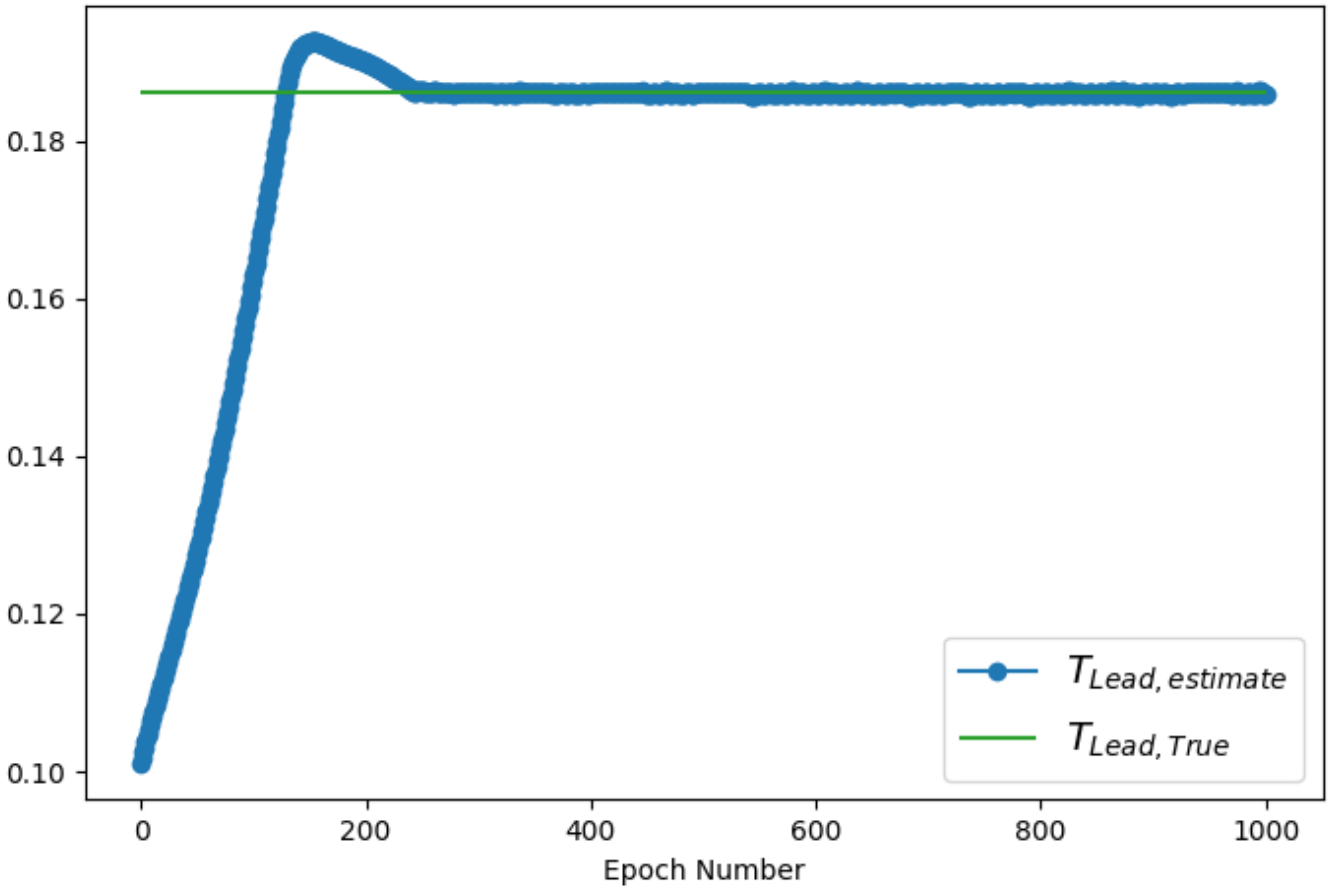
Code Link: https://colab.research.google.com/drive/1upu-7BgjhZJEQPjisvehDewmLH7Rub4t?usp=sharing

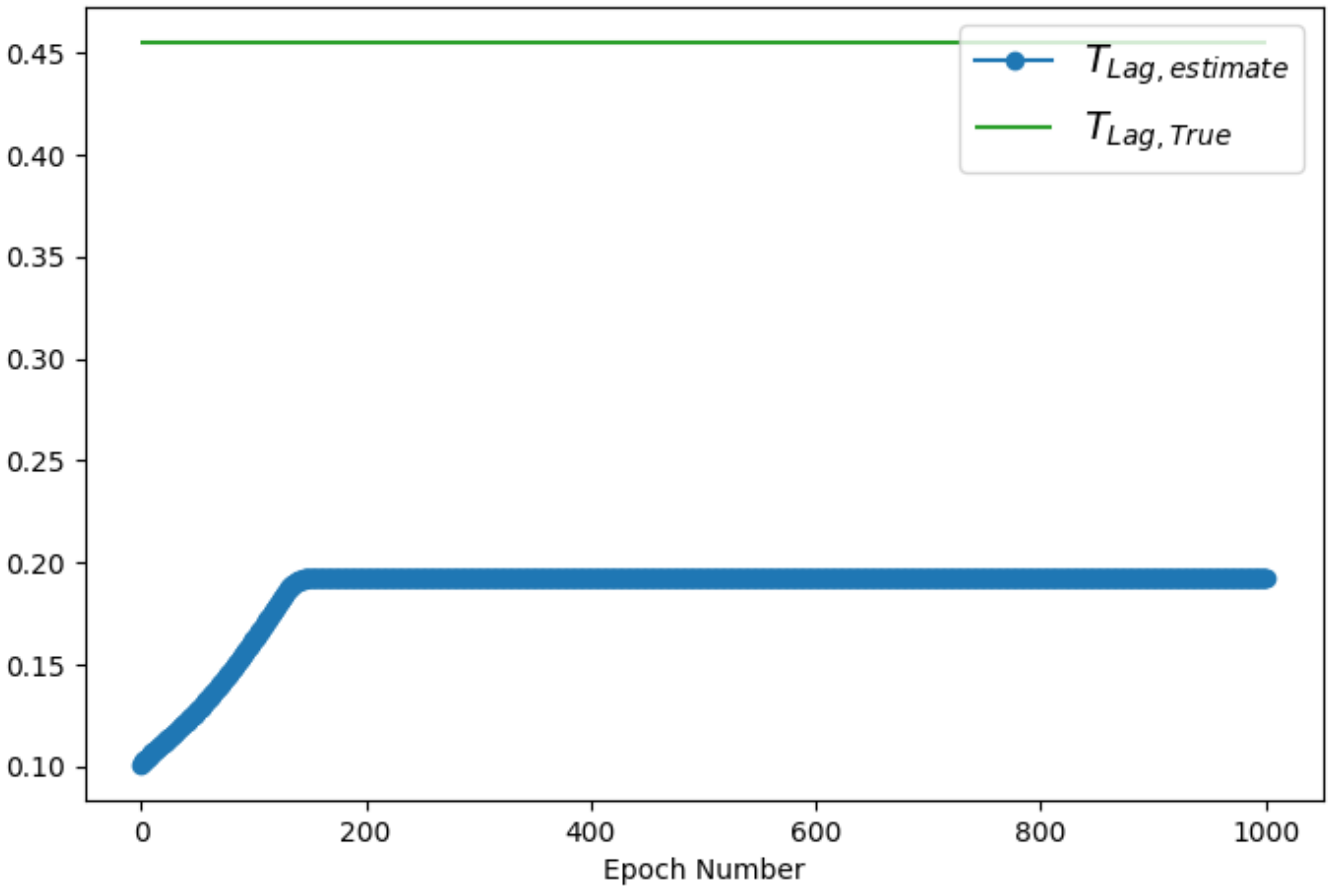
Architecture:



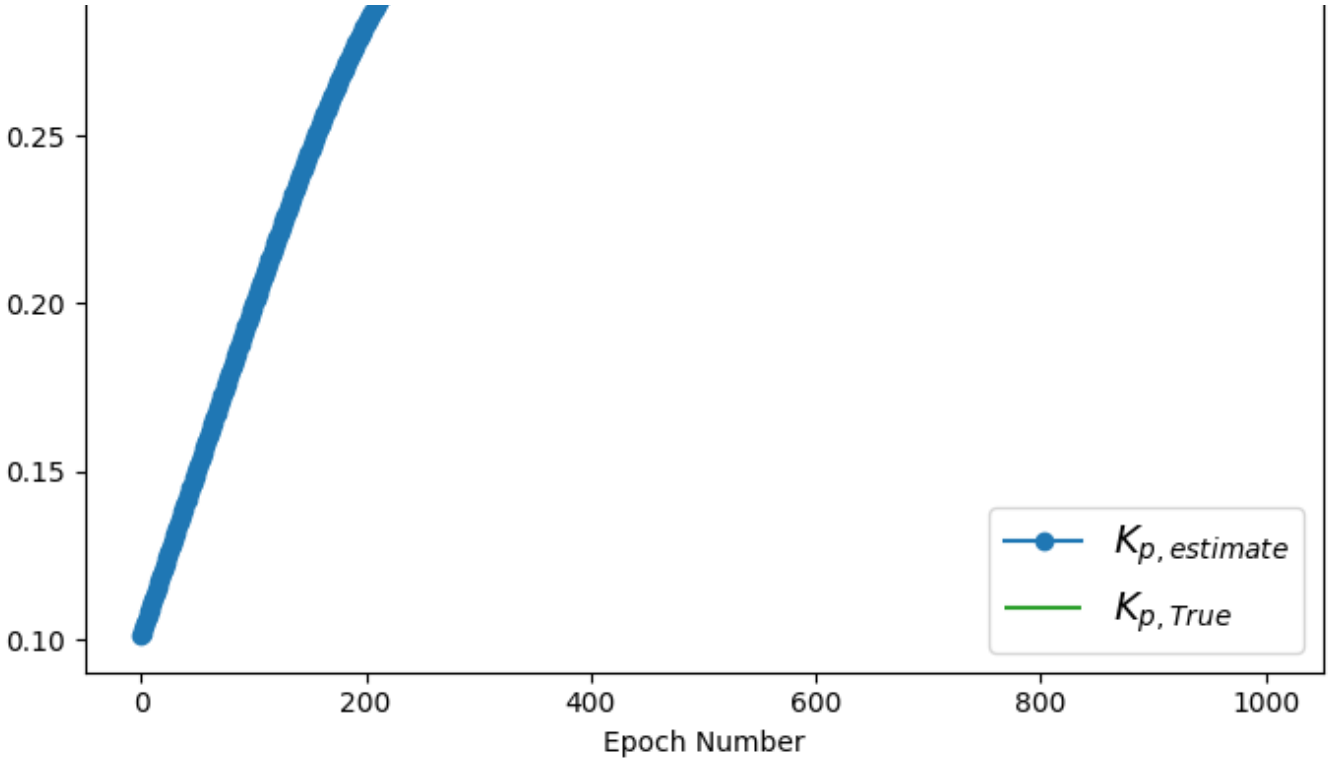
Note: the Xpilot loss term is not taking the entire estimated Xpilot data it is only taking a smaller portion of collocation data. so for example it is only comparing the first 30% of the xpilot data points

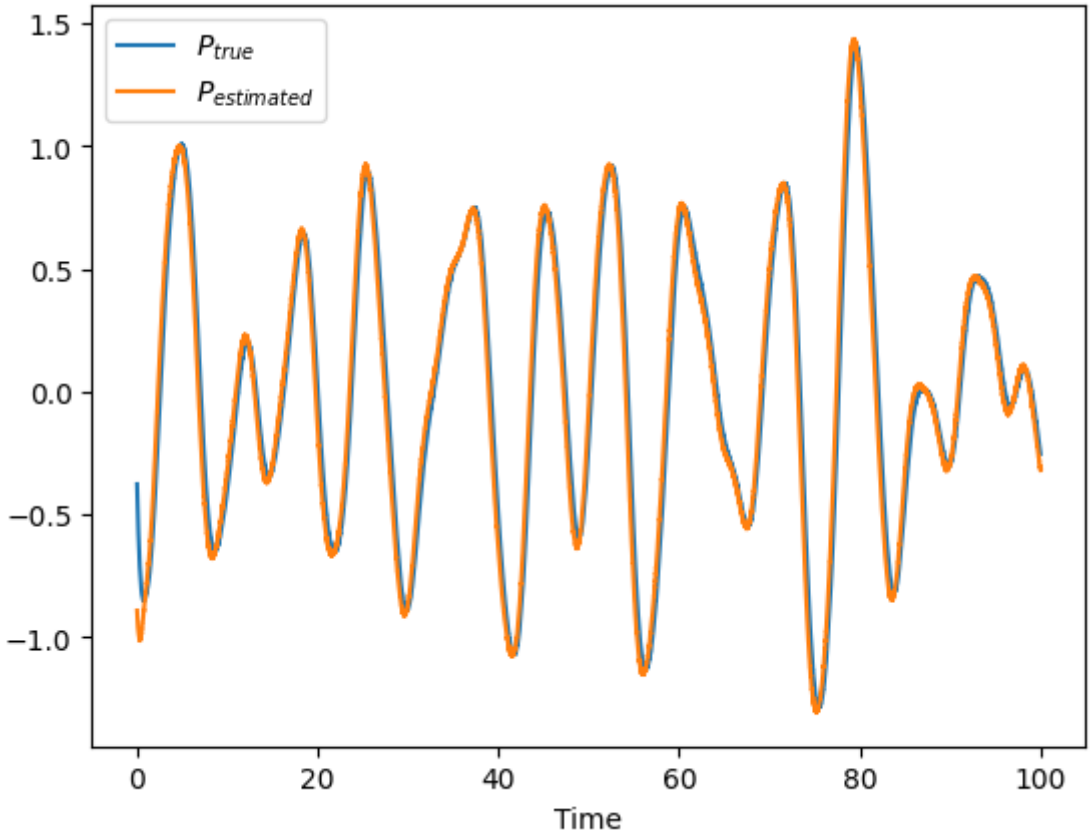
Results:


0.18
0.16
0.14
0.12
0.10
0
200
400
600
800
1000
Epoch Number
$T_{Lead,estimate}$
$T_{Lead,True}$


0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0
200
400
600
800
1000
Epoch Number
$T_{Lag,estimate}$
$T_{Lag,True}$

0.30


0.25
0.20
0.15
0.10
0
200
400
600
800
1000
Epoch Number
$K_{p,\,estimate}$
$K_{p,\,True}$


1.5
1.0
0.5
0.0
−0.5
−1.0
0
20
40
60
80
100
Time
P_{true}
$P_{estimated}$