

```
In [1]: from CreatingGraphs import createLRGraphs
createLRGraphs()
```

Accuracy Measurements:

Here is the accuracy of our algorithm when the training set, test set, and cross validation set is passed in

Training Accuracy: 1.0

Test Accuracy: 0.9991666666666666

Validation Accuracy: 0.9983333333333333

Inaccurate Trajectories

Here is some more information on the trajectories it predicted incorrectly. It displays the indexes of the incorrect trajectories, followed by the actual diffusion type and the incorrect predicted diffusion type.

1 = Ballistic Diffusion, 2 = Confined Diffusion, 3 = Random Walk, 4 = Very Confined Diffusion

Indexes of incorrect predictions in testing:

3289,

Actual Diffusion Types:

3,

Incorrect predictions:

1,

Indexes of incorrect predictions in validation:

3746, 3886,

Actual Diffusion Types:

3, 3,

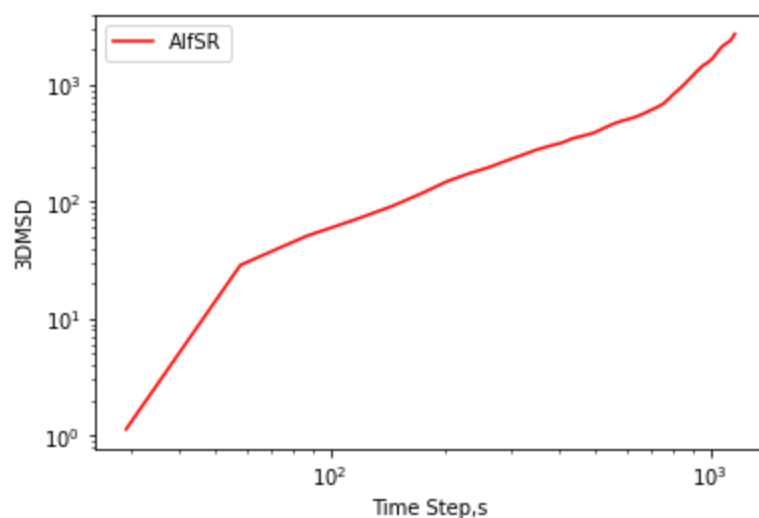
Incorrect predictions:

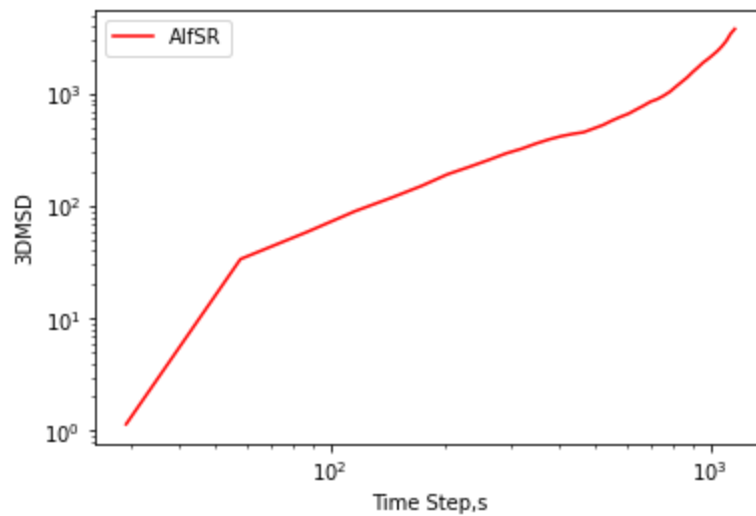
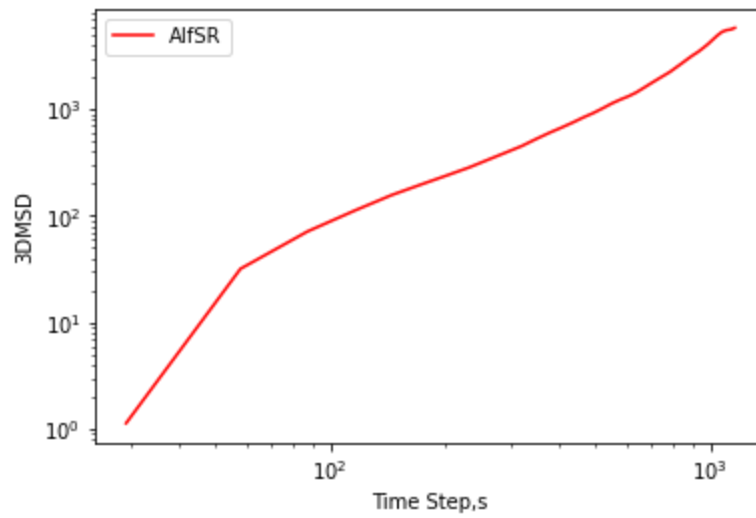
1, 1,

Graphs of Incorrect Trajectories:

Here is the graphs of the trajectories that were predicted incorrectly

data/02_01_Simulated_trajectories/Simple_cases/Random_walk/trajectories/random_289.tck



**Predictions of Dr. Mzyk's Data:**

Here is the predictions of our algorithm when Dr. Mzyk's data is passed in

M0: 2, 2, 2, 2, 2, 2, 2, 2, 2, 4, 4, 2, 2, 2, 2,
M1: 2, 2, 2, 2, 2, 2, 2, 2, 4, 2, 2, 2, 2, 2, 2, 1,
M2: 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,

Analytics of Predictions:

Here is some percentages and information derived from the predictions of the algorithm

M0:	1: 0.00%	2: 86.667%	3: 0.000%	4: 13.333%
M1:	1: 5.88%	2: 88.235%	3: 0.000%	4: 5.882%
M2:	1: 0.00%	2: 100.000%	3: 0.000%	4: 0.000%
Ovr:	1: 1.96%	2: 92.157%	3: 0.000%	4: 5.882%