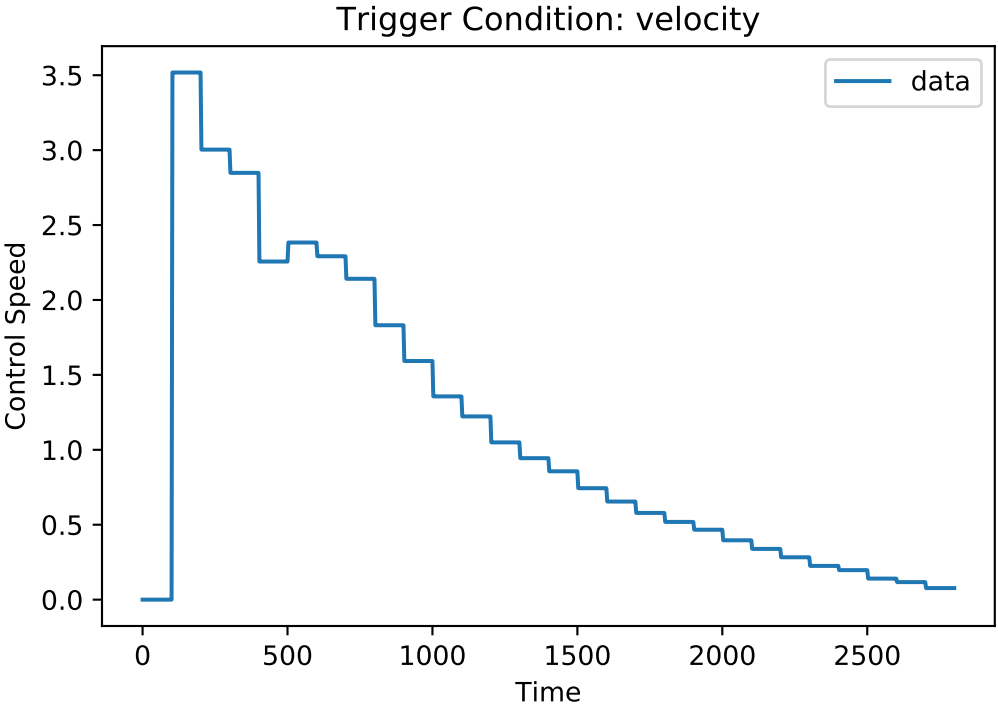
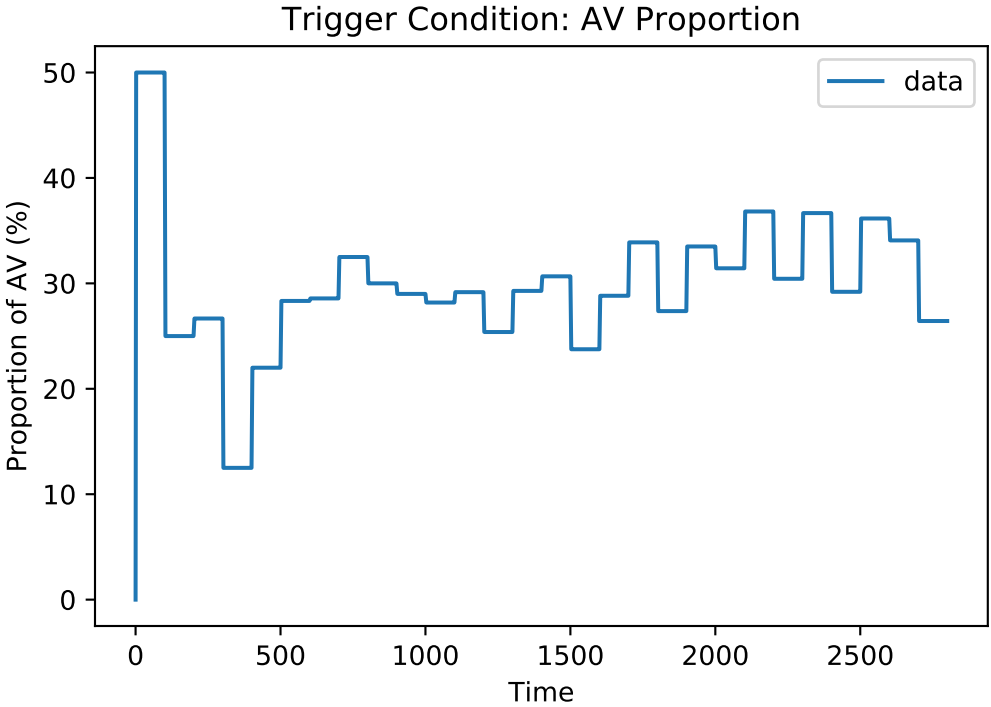
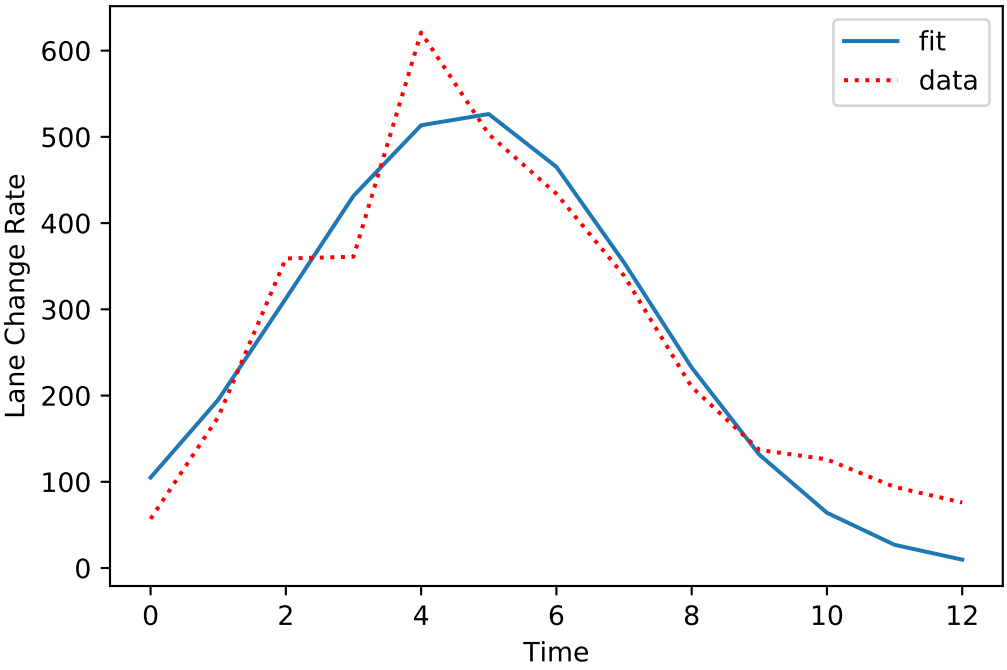
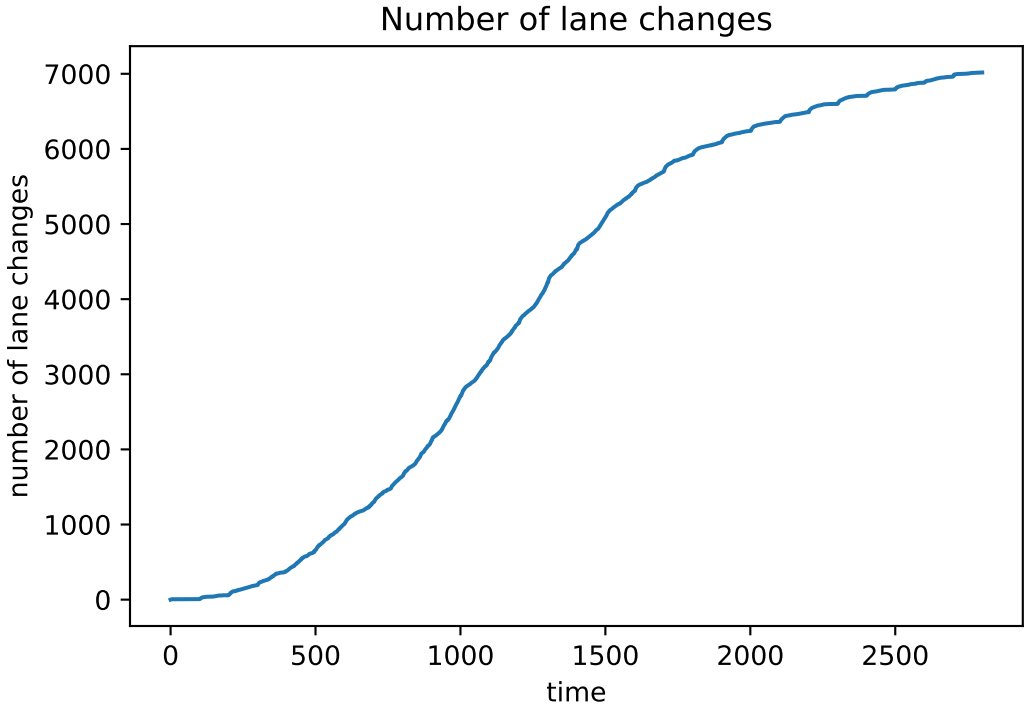
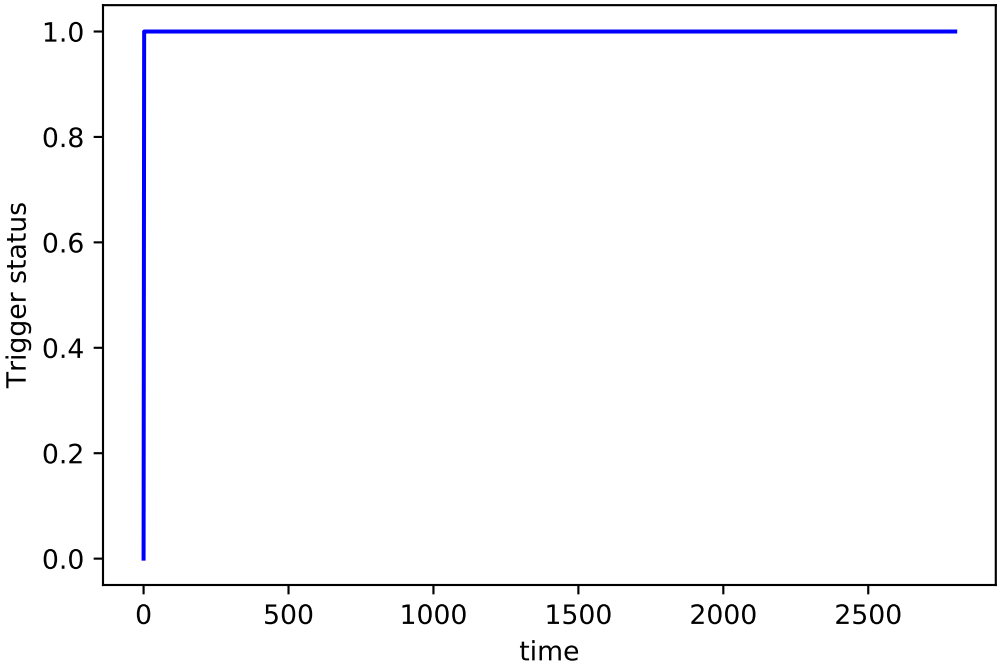
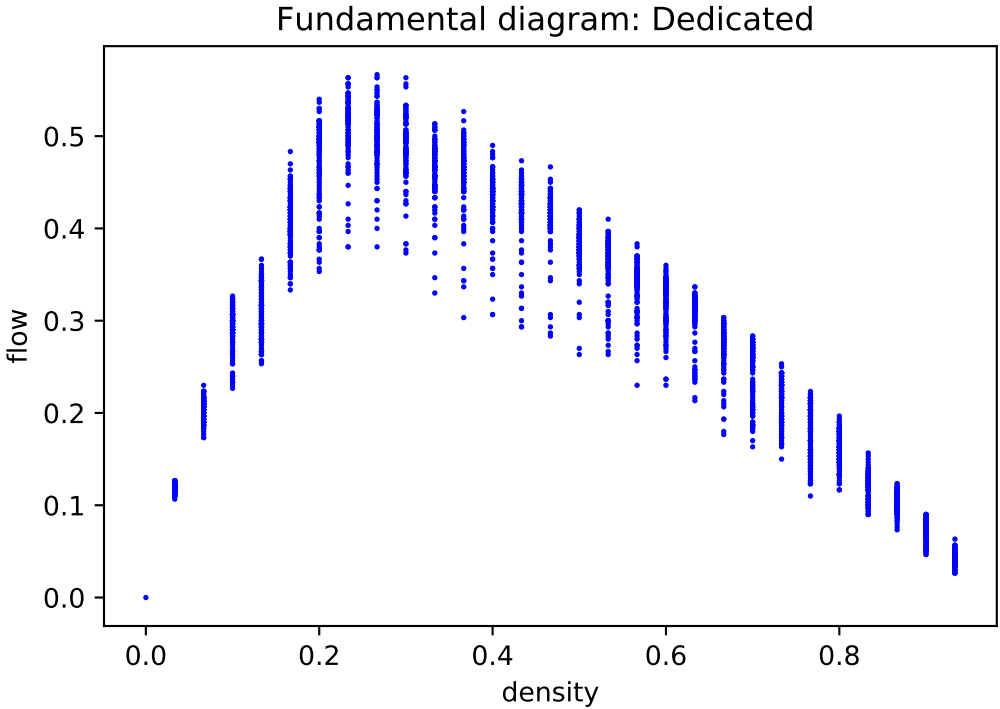

Trigger Condition: velocity
data
Control Speed
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
2500
Time

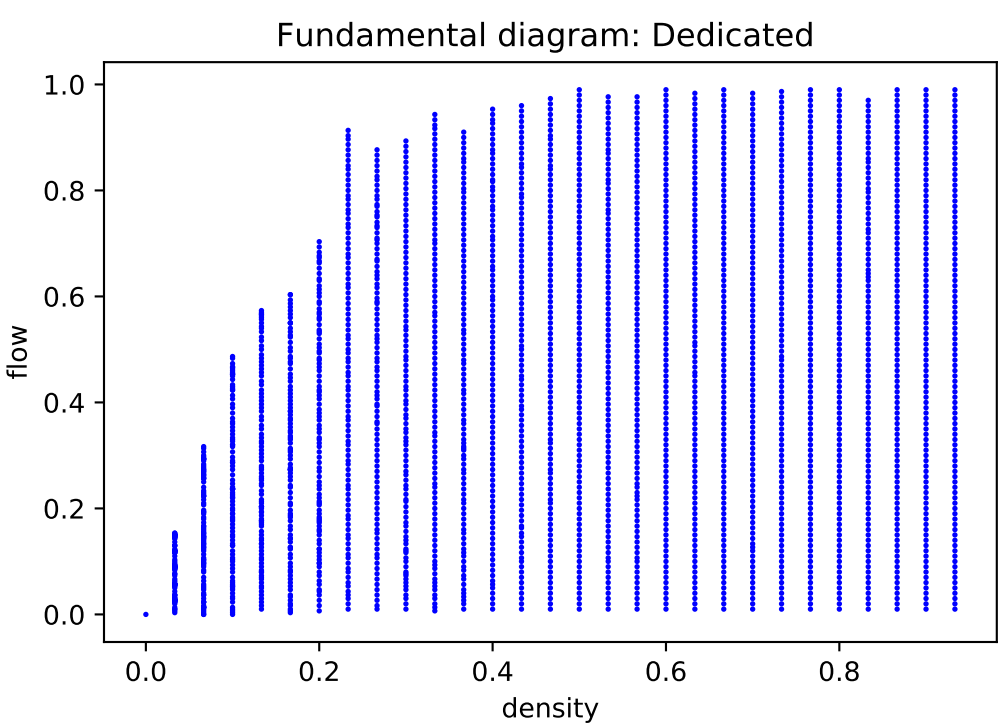

Trigger Condition: AV Proportion
data
Proportion of AV (%)
50
40
30
20
10
0
0
500
1000
1500
2000
2500
Time

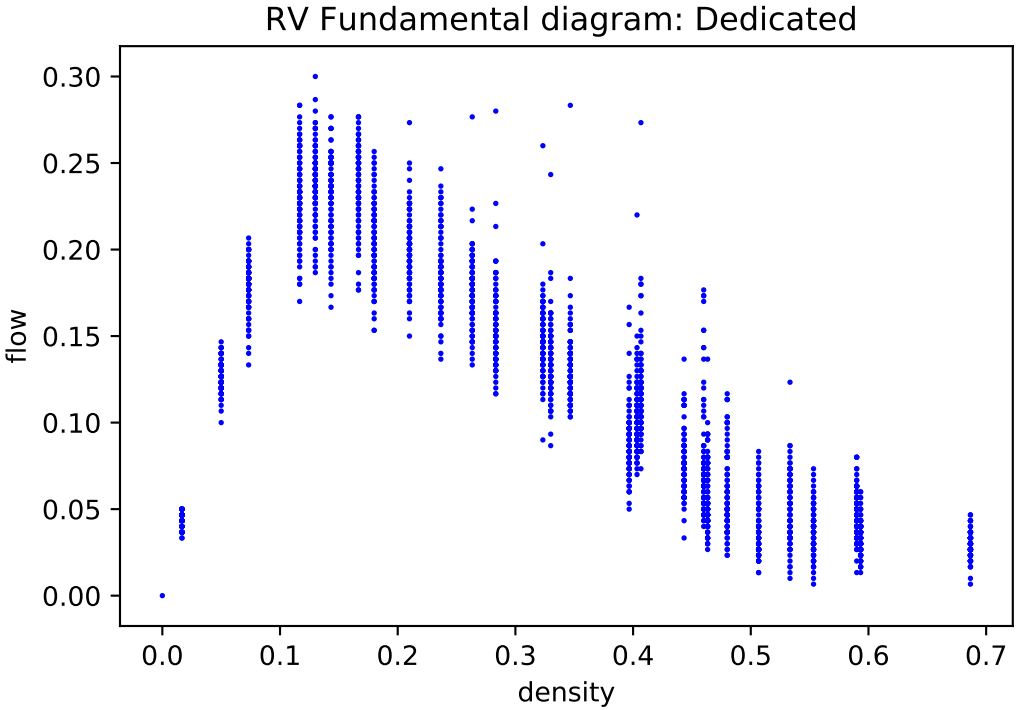

fit
data
Lane Change Rate
Time
0
100
200
300
400
500
600
0
2
4
6
8
10
12

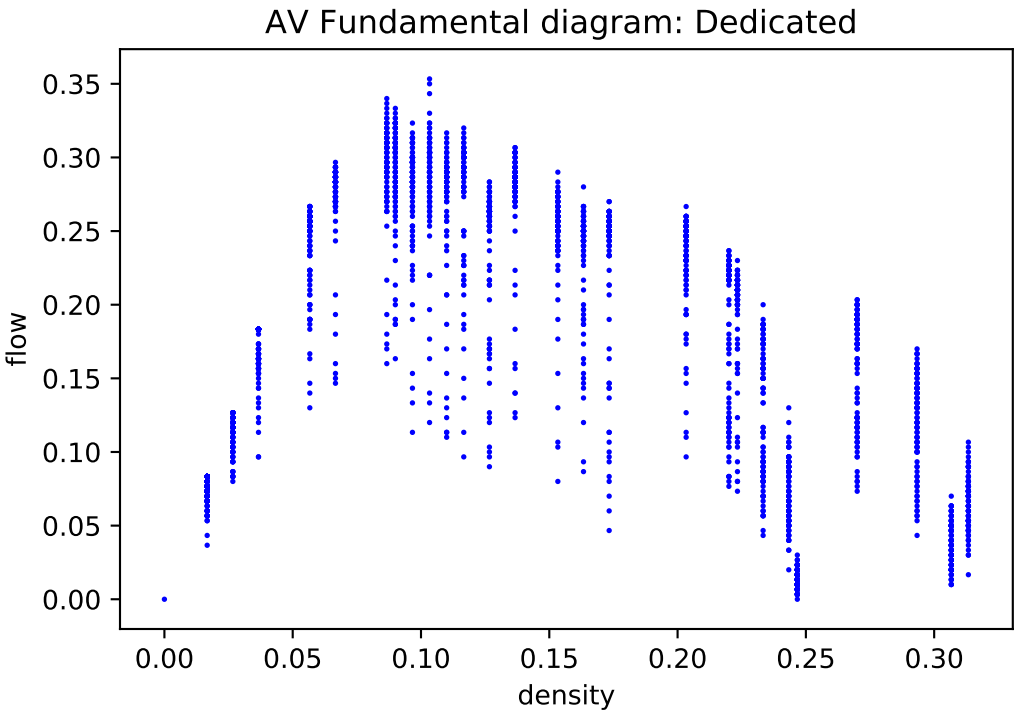

Number of lane changes
number of lane changes
0
1000
2000
3000
4000
5000
6000
7000
0
500
1000
1500
2000
2500
time

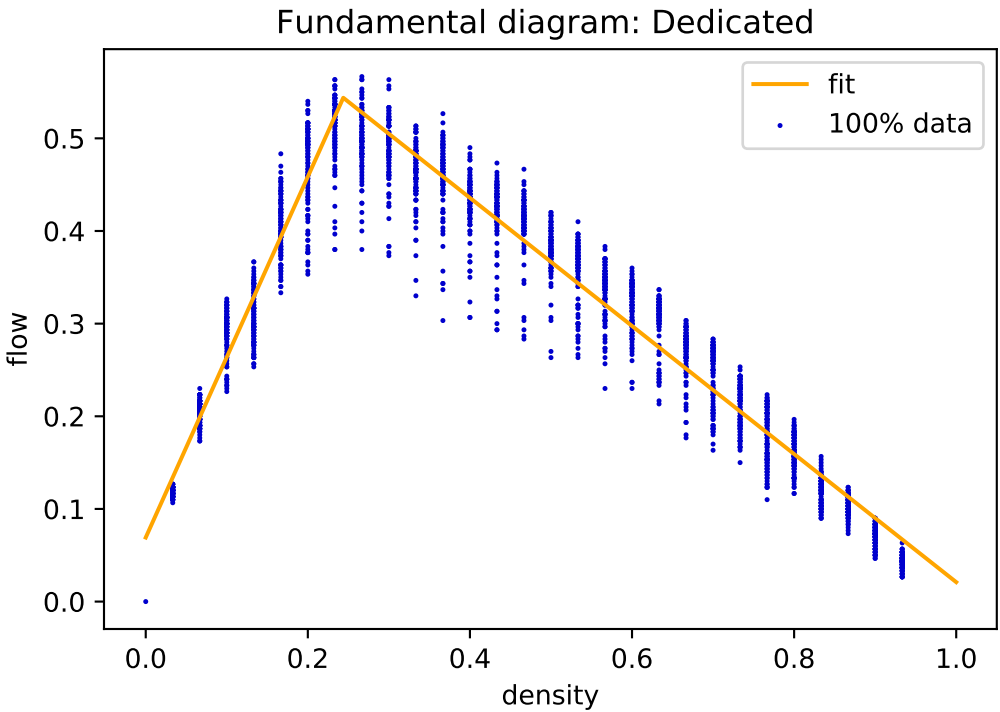

1.0
0.8
0.6
0.4
0.2
0.0
Trigger status
0
500
1000
1500
2000
2500
time

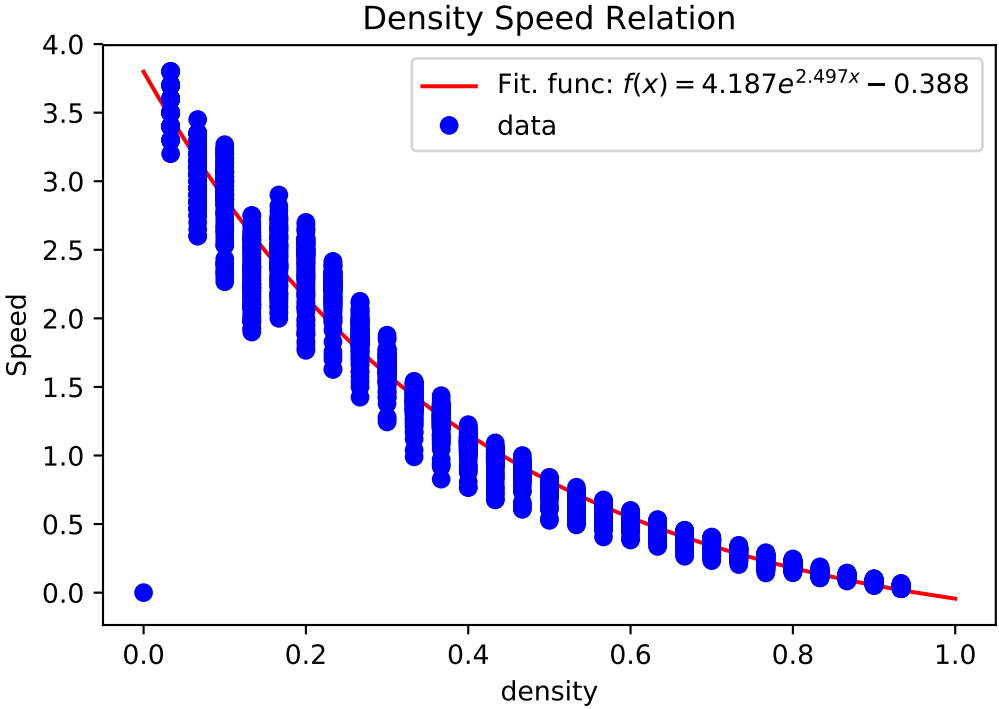

Fundamental diagram: Dedicated
flow
density
0.0
0.1
0.2
0.3
0.4
0.5
0.0
0.2
0.4
0.6
0.8

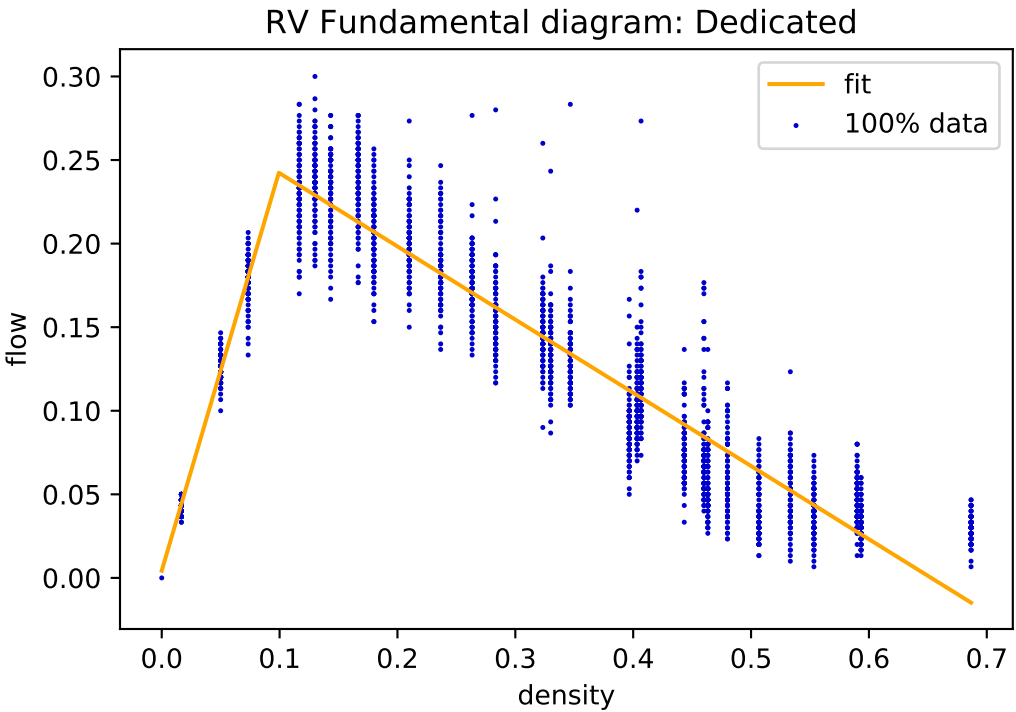

Fundamental diagram: Dedicated
flow
density
0.0
0.2
0.4
0.6
0.8
1.0
0.0
0.2
0.4
0.6
0.8

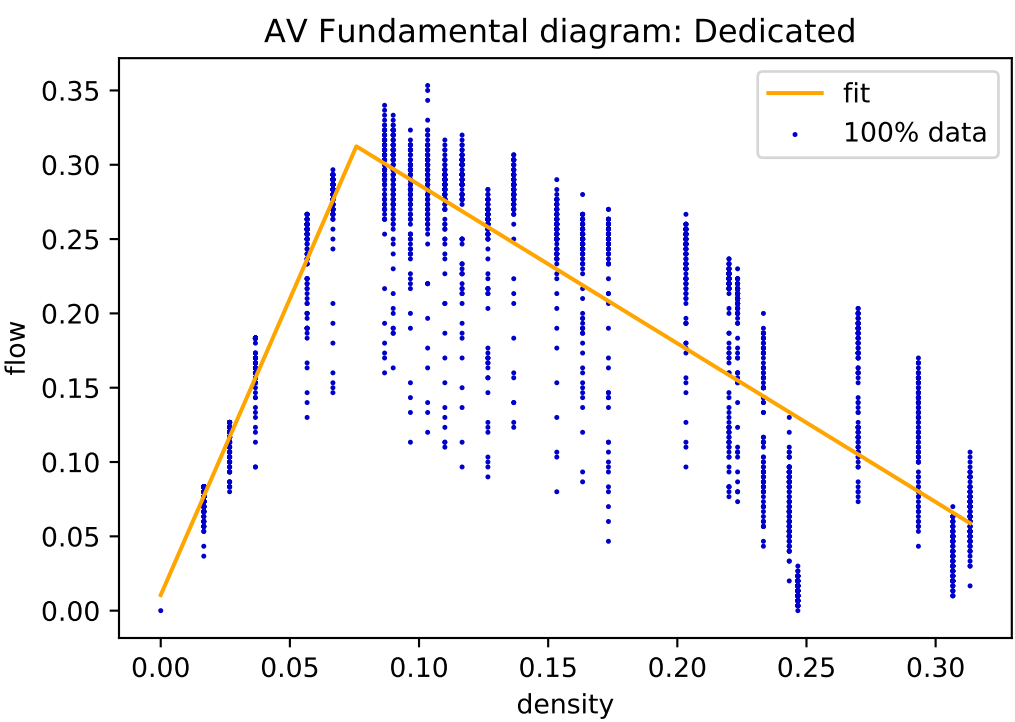

RV Fundamental diagram: Dedicated
flow
density
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


AV Fundamental diagram: Dedicated
flow
density
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35


Fundamental diagram: Dedicated
fit
100% data
flow
density
0.0
0.1
0.2
0.3
0.4
0.5
0.0
0.2
0.4
0.6
0.8
1.0


Density Speed Relation
Fit. func: $f(x) = 4.187e^{2.497x} - 0.388$
data
Speed
density
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.0
0.2
0.4
0.6
0.8
1.0


RV Fundamental diagram: Dedicated
fit
100% data
flow
density
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


AV Fundamental diagram: Dedicated
fit
100% data
flow
density
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35