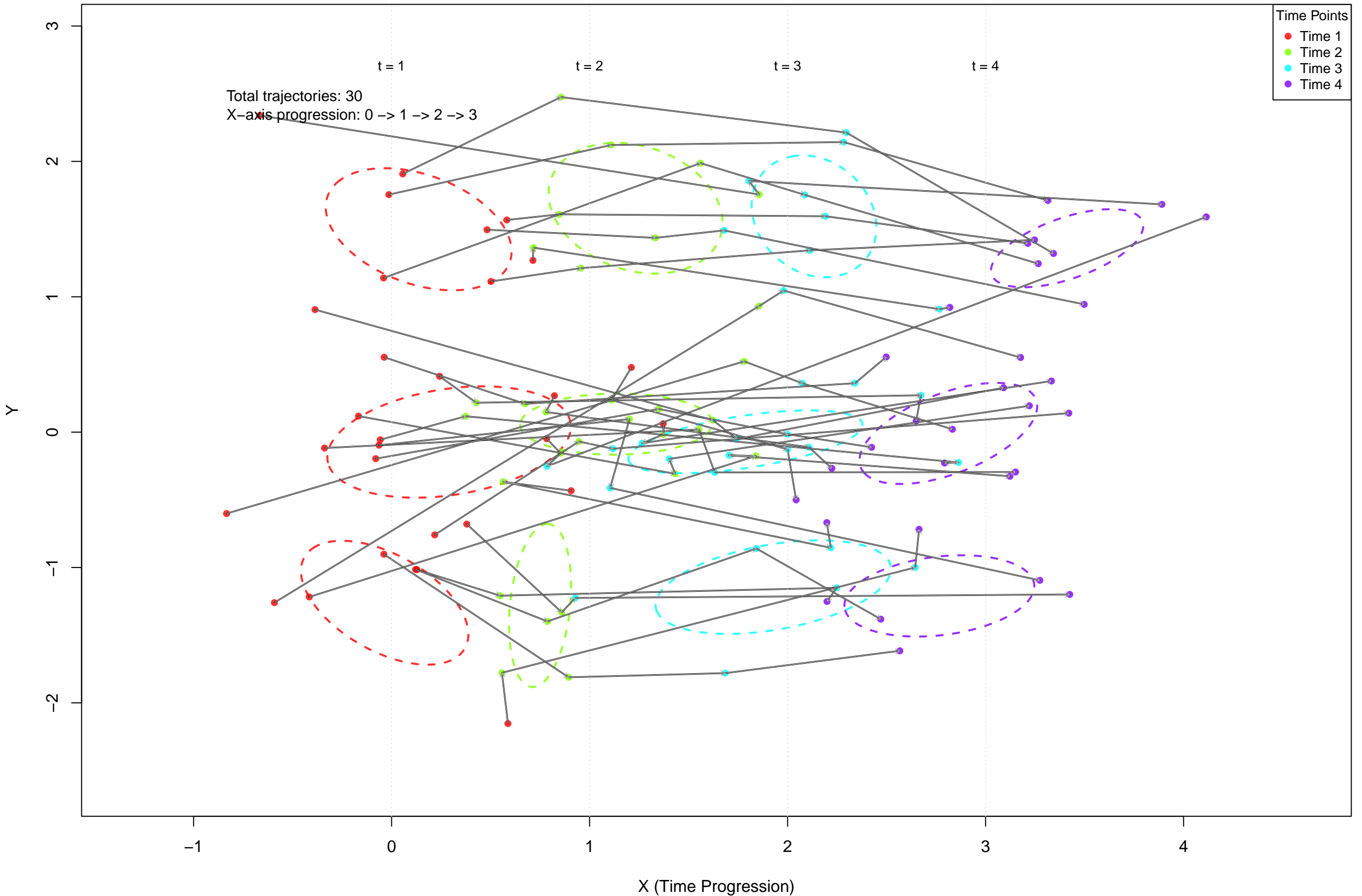Continuous Optimal Transport: X−axis Controlled Elliptical Progression

Total trajectories: 30
X−axis progression: 0 −> 1 −> 2 −> 3

t = 1   t = 2   t = 3   t = 4

Time Points
● Time 1
● Time 2
● Time 3
● Time 4

X (Time Progression)

Y

X–axis Controlled Transport: Time 1 –> 2

Avg cost: 1.084
X displacement: 0.908
Connections: 30

Legend:
- Time 1 (x. 0)
- Time 2 (x. 1)
- Transport

X (Time Progression)

Y

X−axis Controlled Transport: Time 2 −> 3

Avg cost: 0.922
X displacement: 0.832
Connections: 30

Legend:
- Time 2 (x. 1)
- Time 3 (x. 2)
- Transport

Y

X (Time Progression)

X–axis Controlled Transport: Time 3 –> 4

Avg cost: 1.172
X displacement: 1.064
Connections: 30

Time 3 (x. 2)
Time 4 (x. 3)
Transport

Y
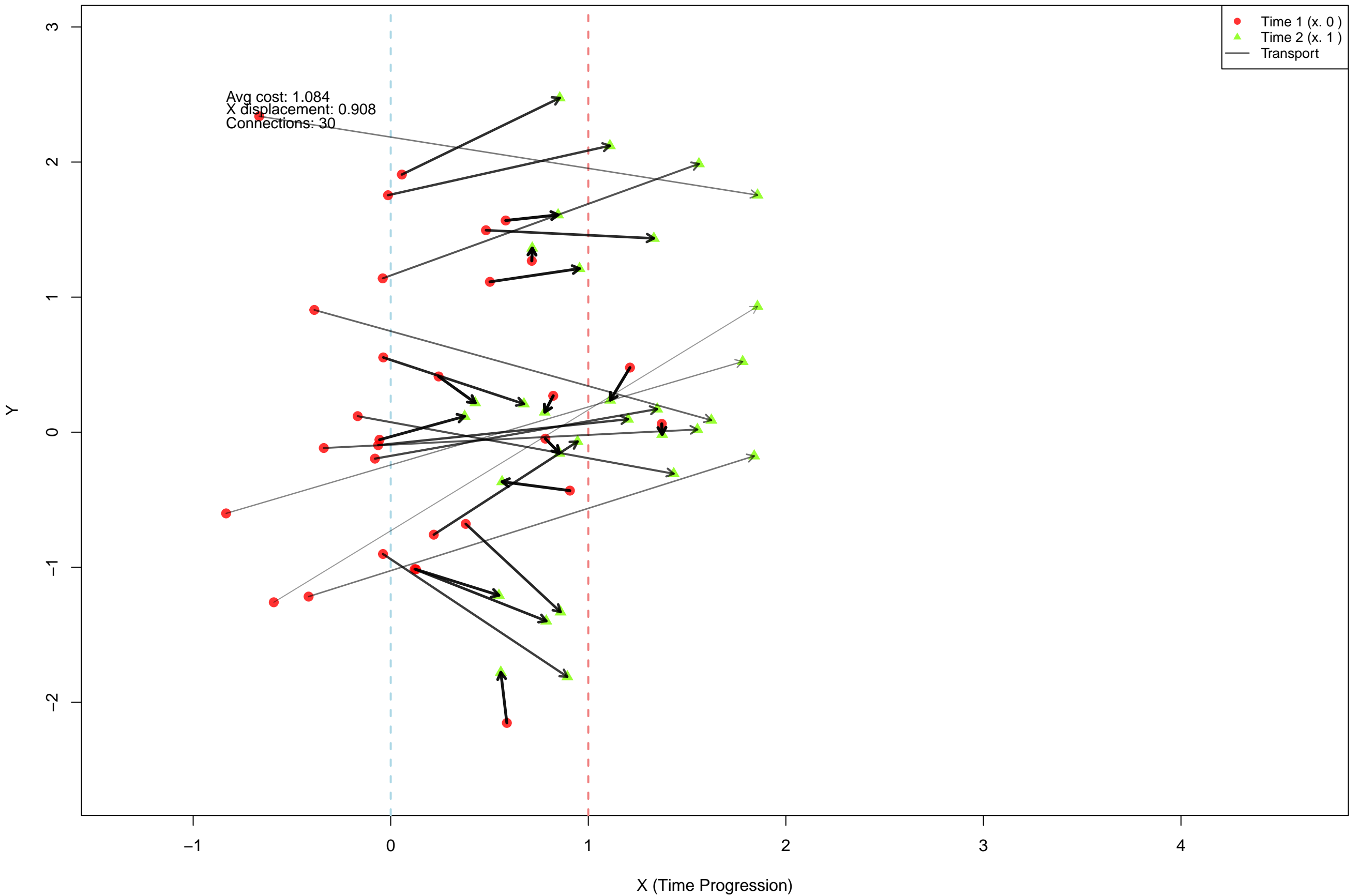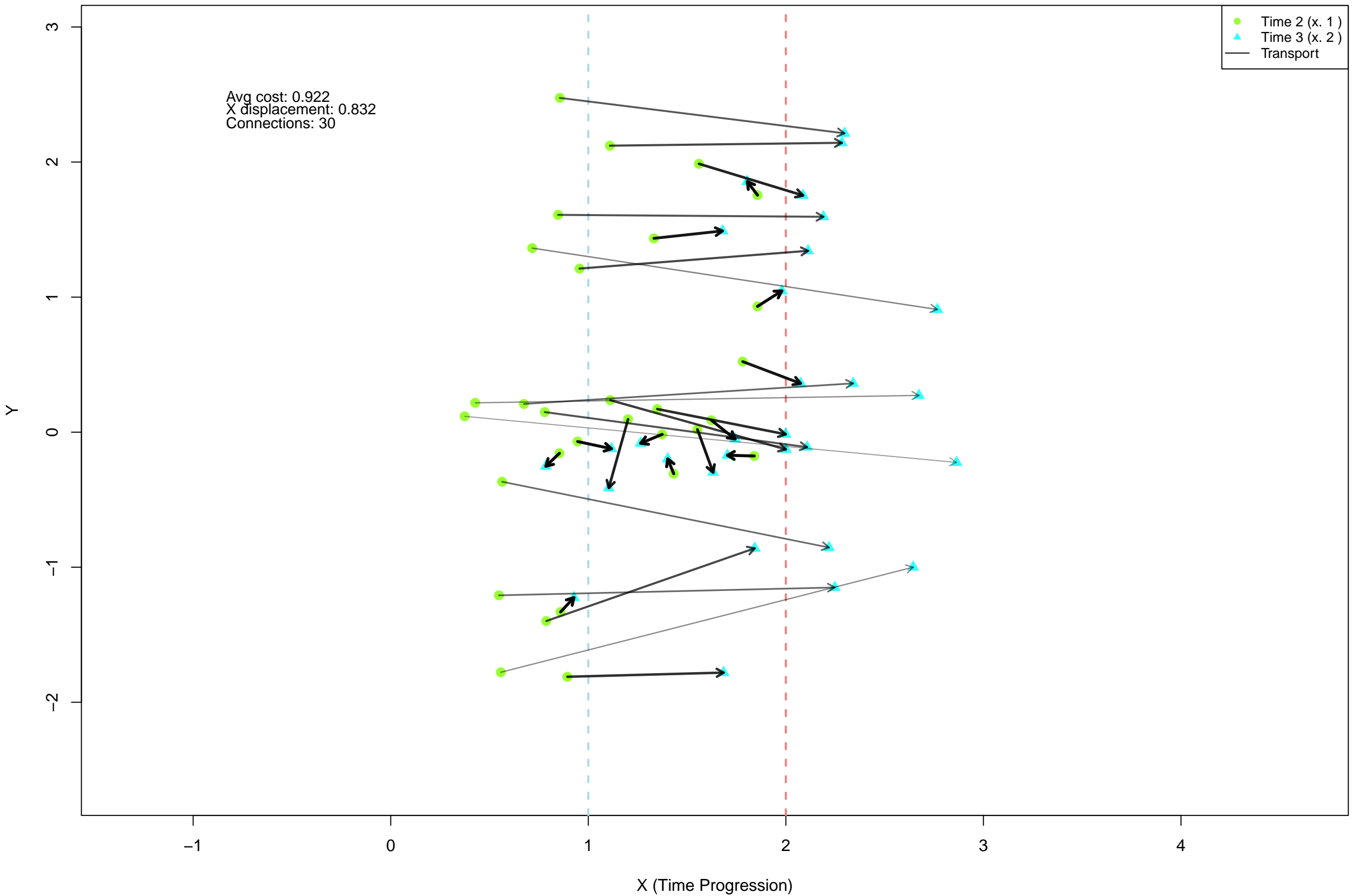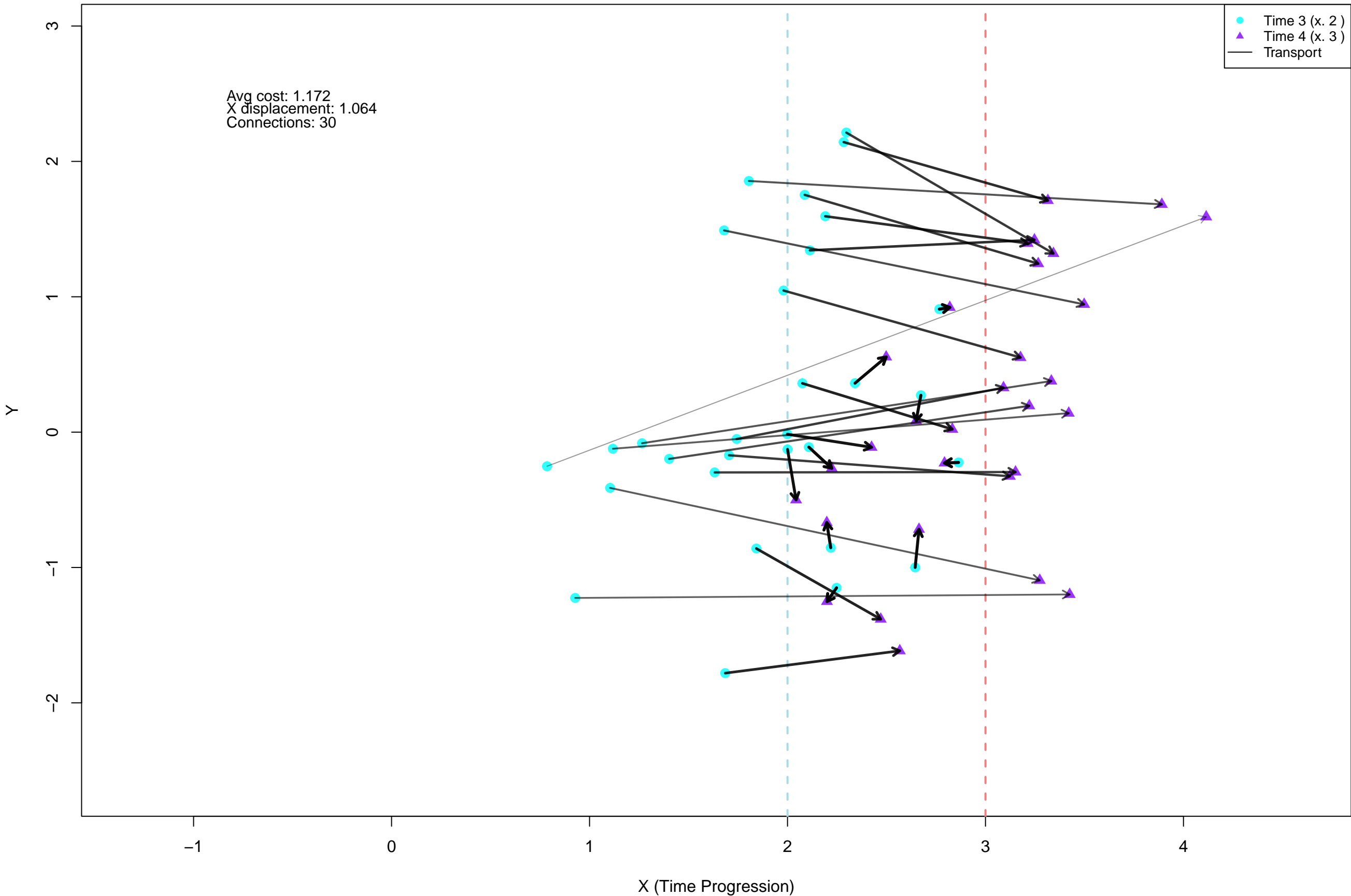
X (Time Progression)

Sample Individual Trajectories: X–axis Progression
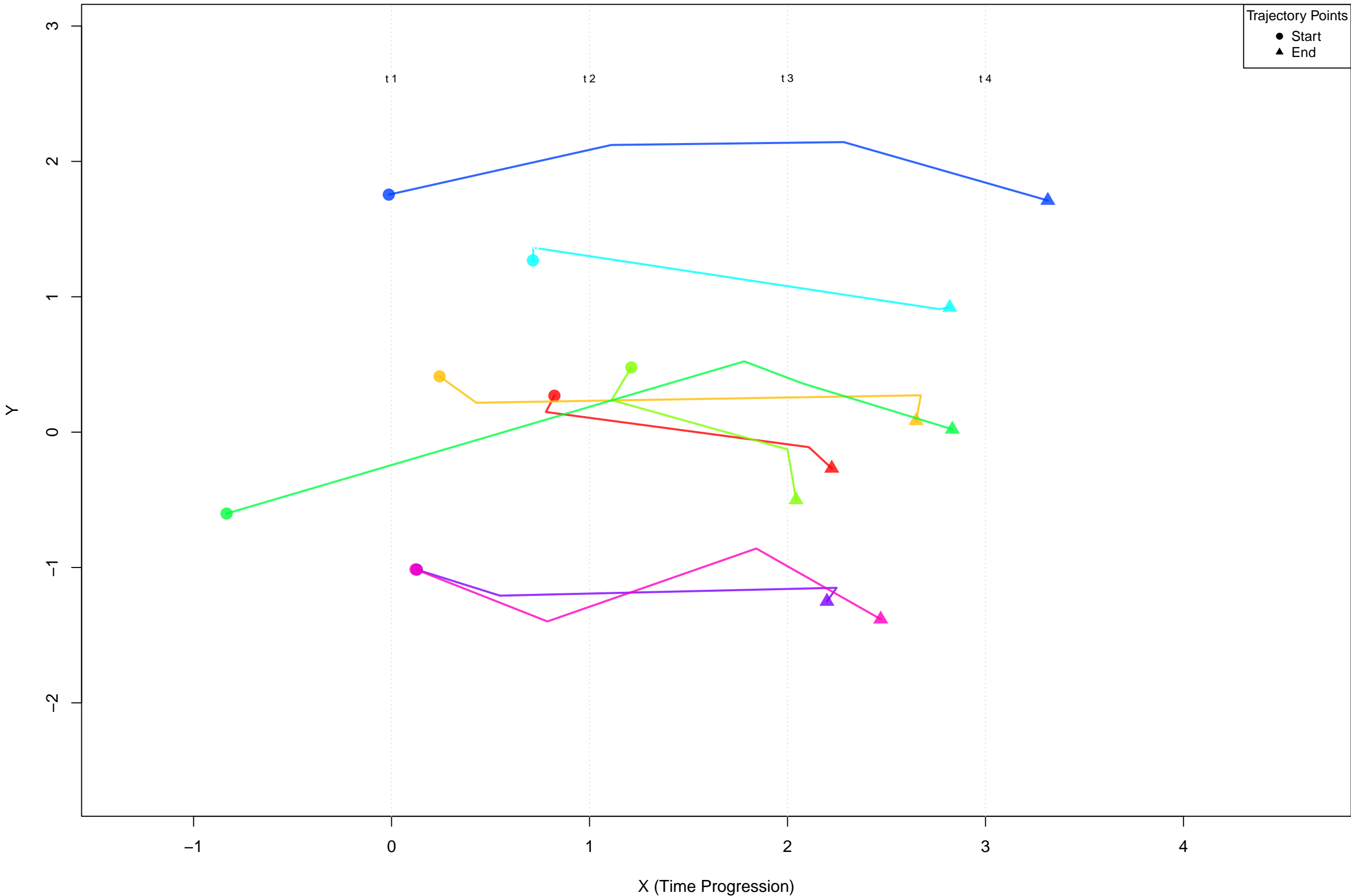
X-axis Displacement Over Time

Expected displacement = 1

Average X Displacement

Time Step
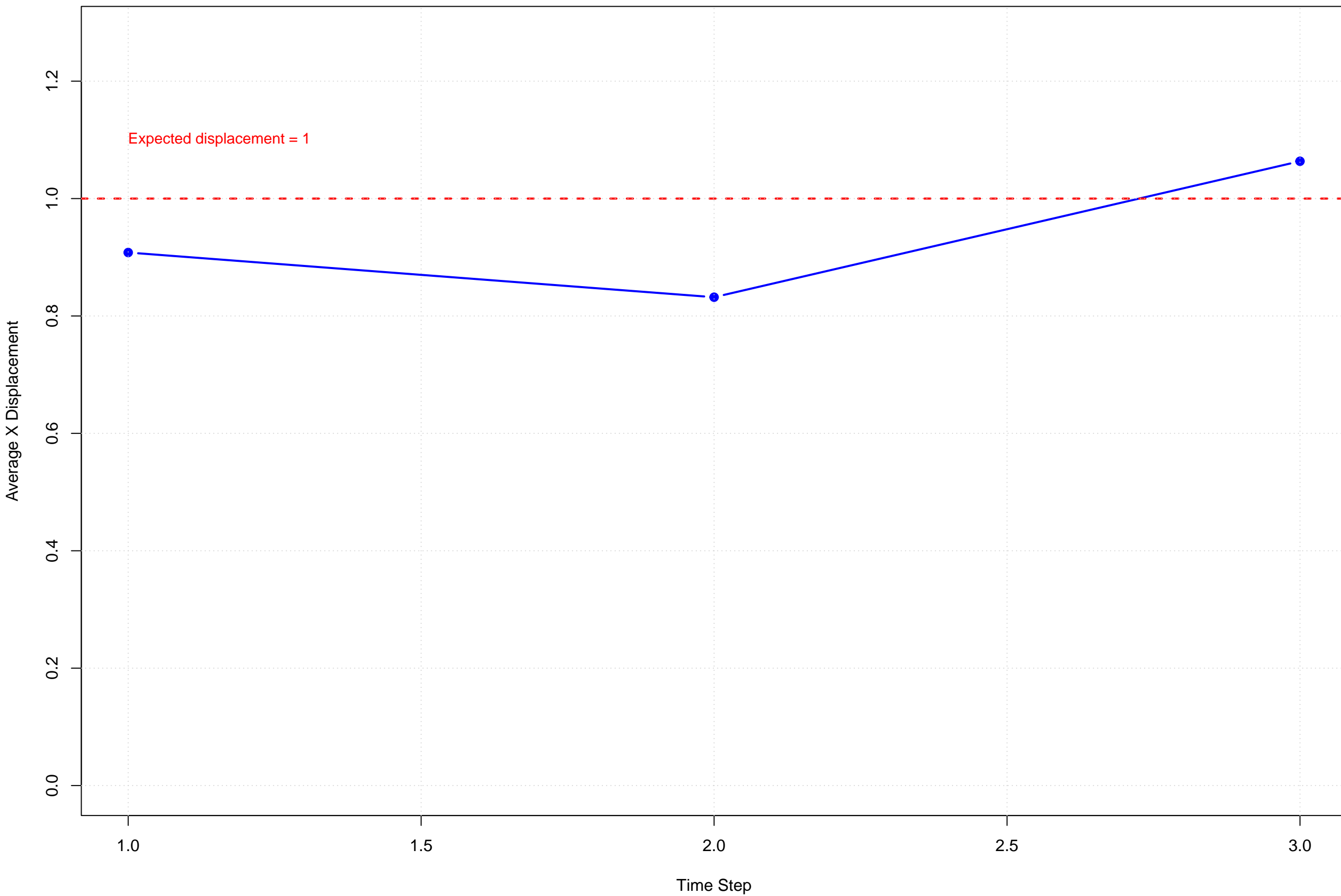
Transport Cost vs X-displacement

Correlation: 0.934

Average Transport Cost

X Displacement