

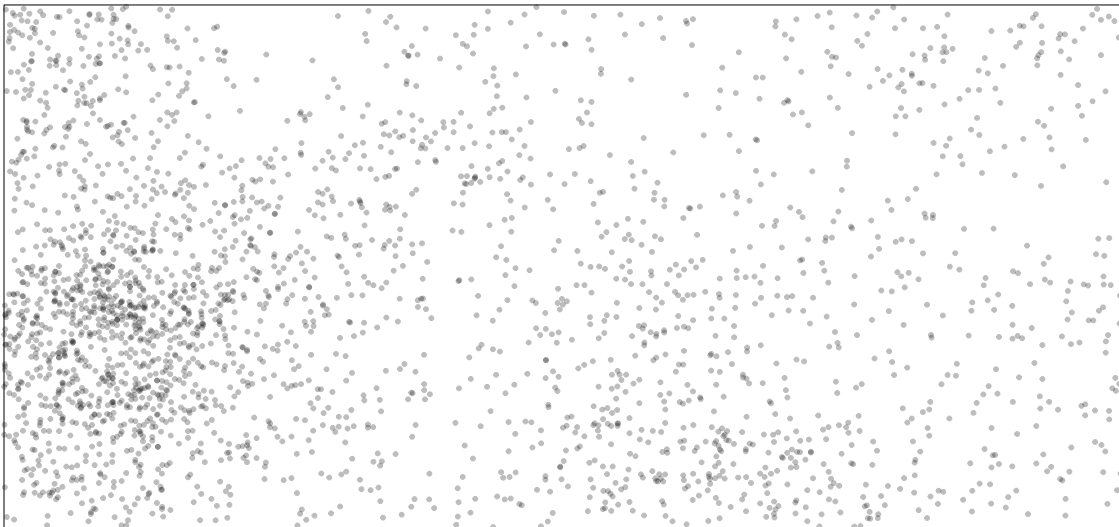
Example Spatial Sampling Paths

Kenny Flagg

April 30, 2020

Full Dataset

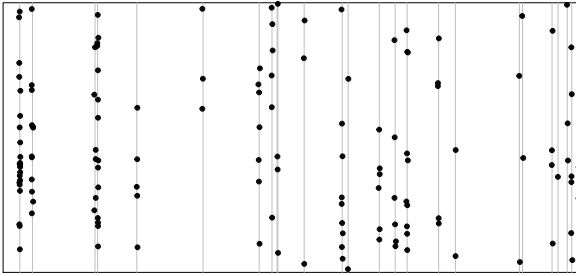
Full Data



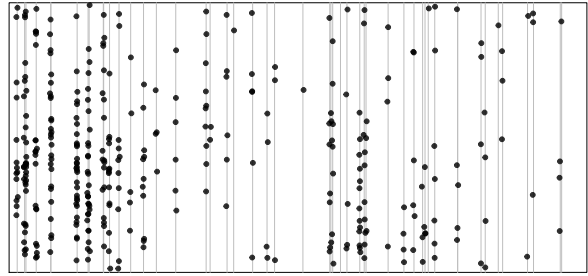
The dataset in a 1500×700 rectangular region. It will be surveyed such that only events within 2 units of a path are observed.

Simple Random Sample of Parallel Transects

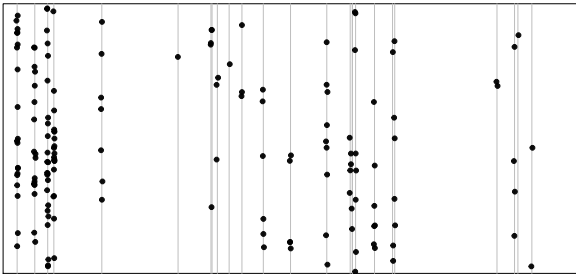
SRS, length = 17500



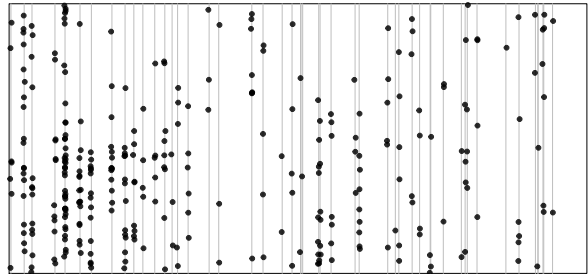
SRS, length = 35000



SRS, length = 17500

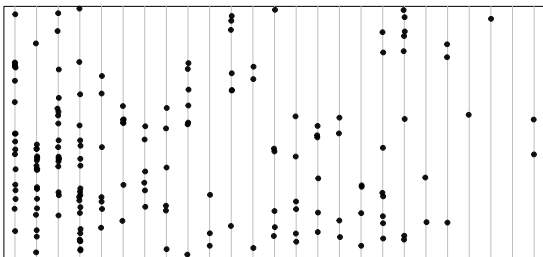


SRS, length = 35000

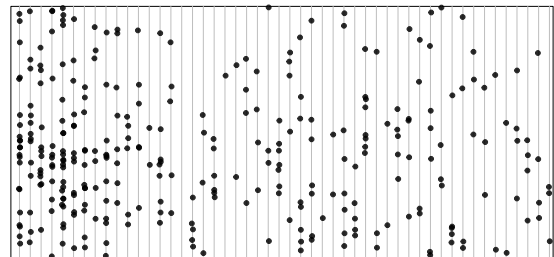


Systematic Sample of Parallel Transects

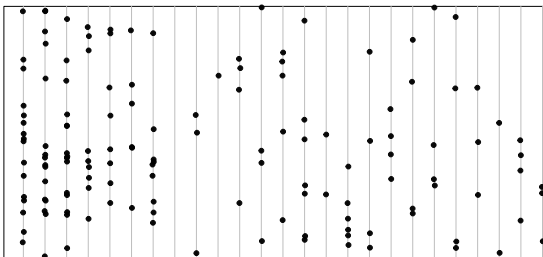
Systematic Sample, length = 17500



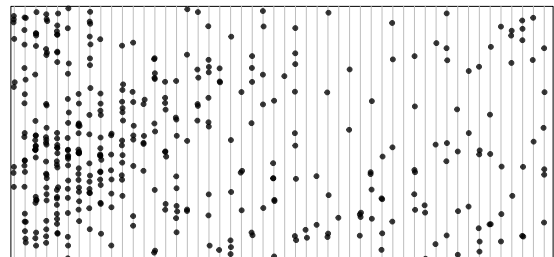
Systematic Sample, length = 35000



Systematic Sample, length = 17500

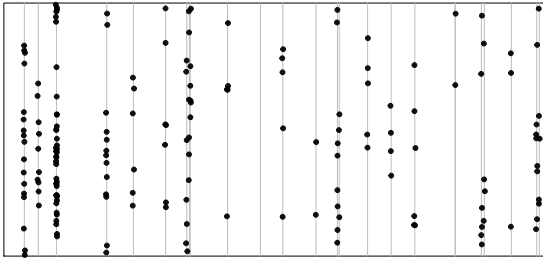


Systematic Sample, length = 35000

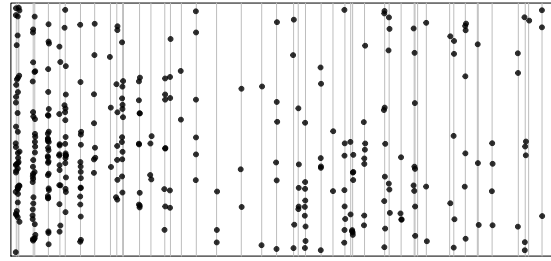


Inhibitory Plus Close Pairs Parallel Transects

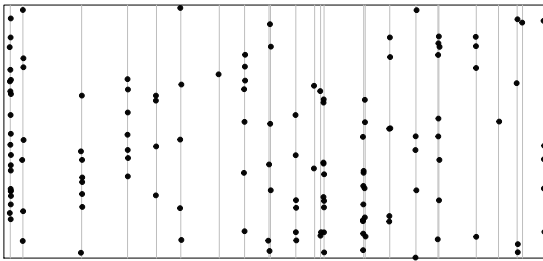
Inhibitory Plus Pairs, length = 17500



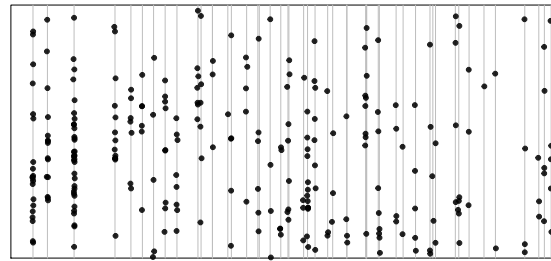
Inhibitory Plus Pairs, length = 35000



Inhibitory Plus Pairs, length = 17500

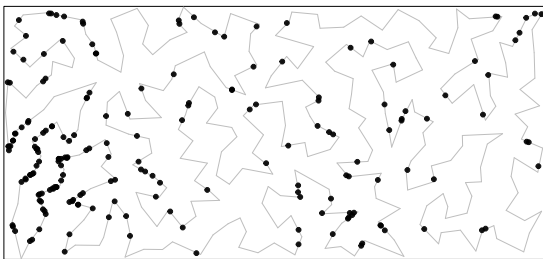


Inhibitory Plus Pairs, length = 35000

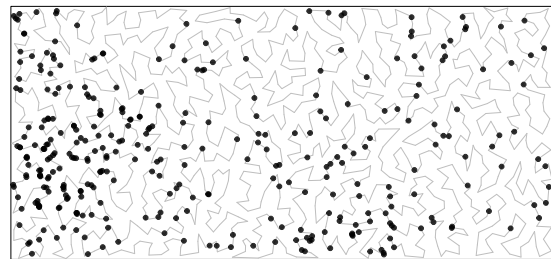


Latin Hypercube Sampling-Traveling Salesperson

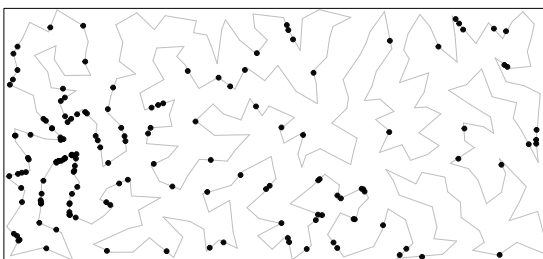
LHS-TSP, length = 17178



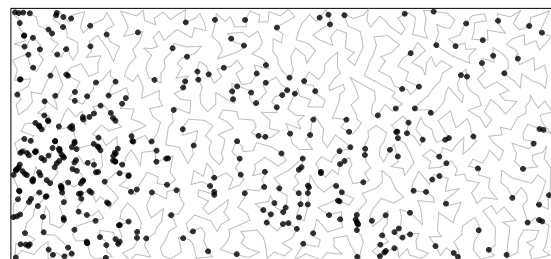
LHS-TSP, length = 34238



LHS-TSP, length = 17215

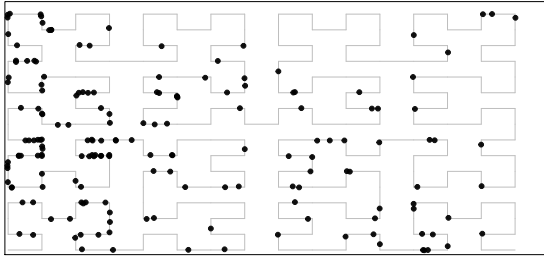


LHS-TSP, length = 33958

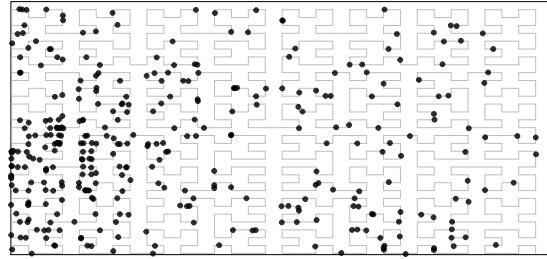


Hilbert Curve

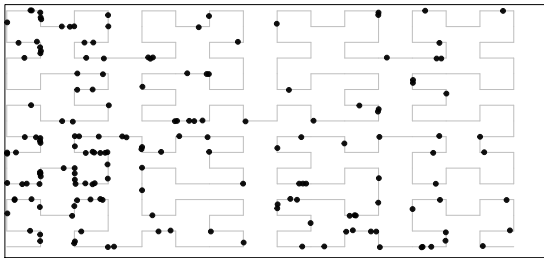
Hilbert Curve, length = 17442



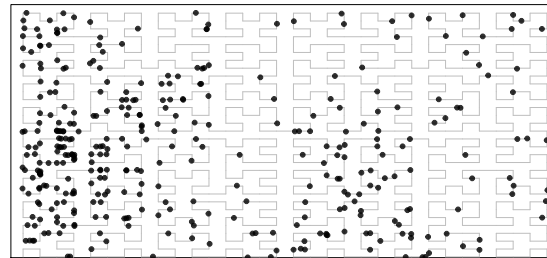
Hilbert Curve, length = 35025



Hilbert Curve, length = 17442



Hilbert Curve, length = 35025



Particle Movement