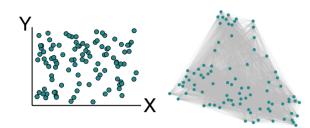
## A. Simulating spatial networks

1. Simulate spatial coordinates and calculate pairwise distance

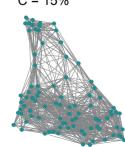


2. Prune the lowest weight edges until connectance (C) is 10%.

$$C = \frac{\text{# of edges}}{(\text{# of nodes})^2}$$

3. Recalculate pairwise distance; sequentailly add edges for desired connectance.





## B. Disease dynamics within a patch

