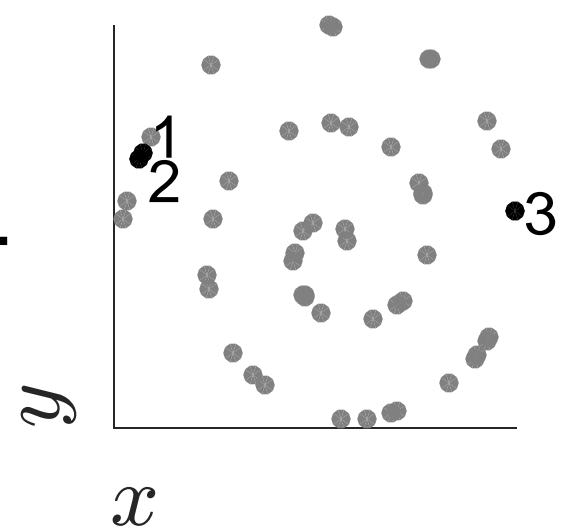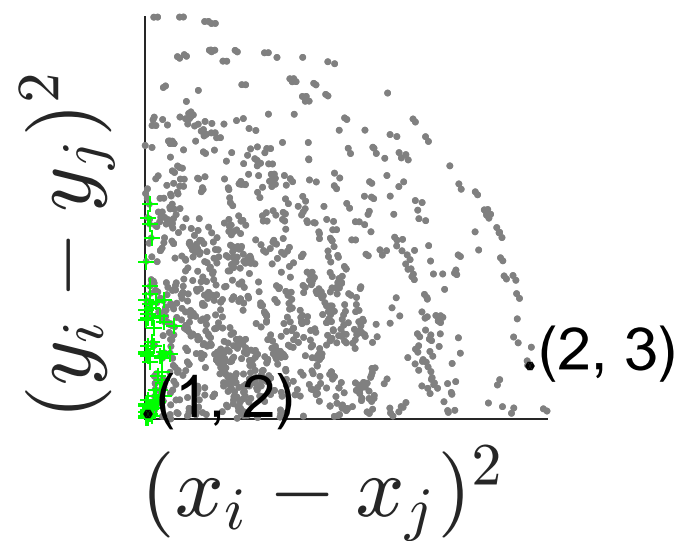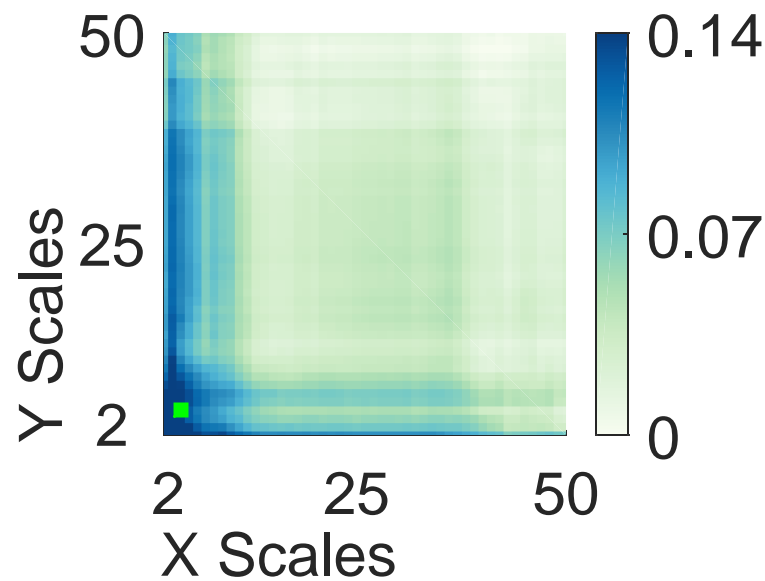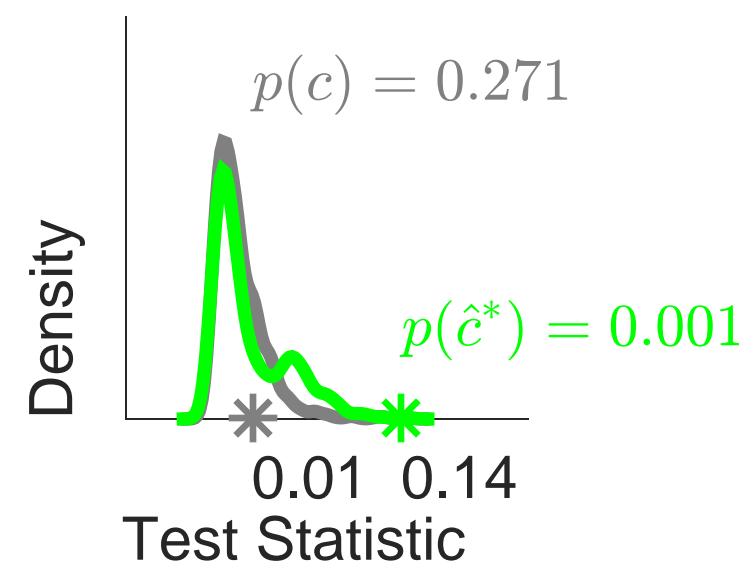**0. Sample Data**

1. Pairwise Distances

2. Multiscale Correlation Map & Test Statistic

3. Null Distributions & P-Values

4. Multiscale P-Value Map & Optimal Scales

Spiral

$(y_i - y_j)^2$

$(x_i - x_j)^2$

$(1, 2)$

$(2, 3)$

Y Scales

X Scales

Density

$p(c) = 0.271$

$p(\hat{c}^*) = 0.001$

Test Statistic