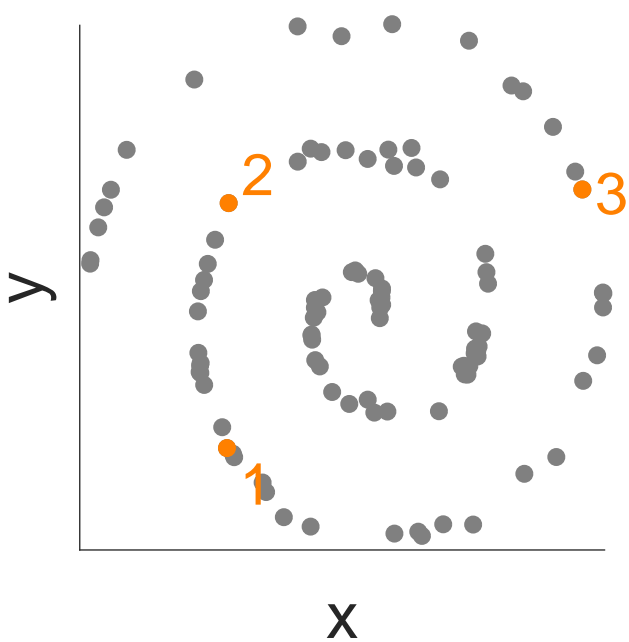
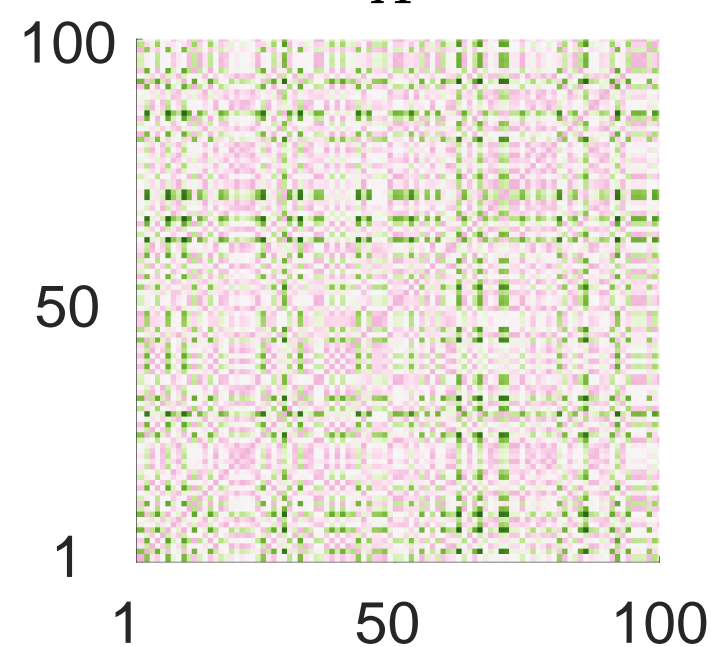


## 0. Sample Data



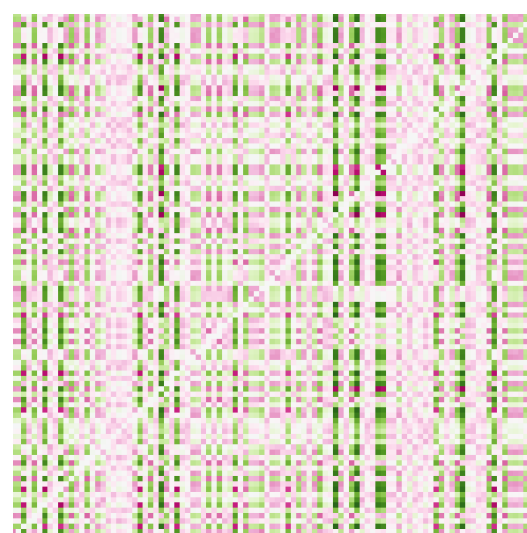
## 1. Mantel (pairwise distances)

$\tilde{A}$



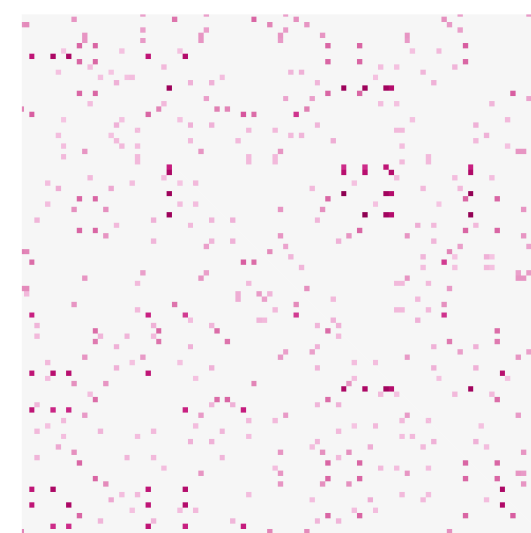
## 2. Mcorr (single center)

$A$



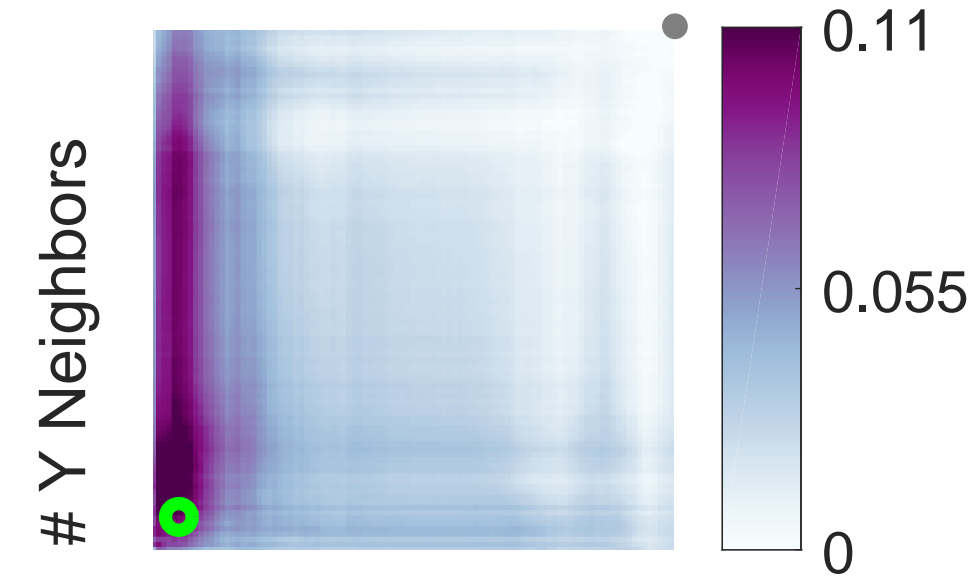
## 3. MGC<sup>k,l</sup> (local scale)

$A^k$



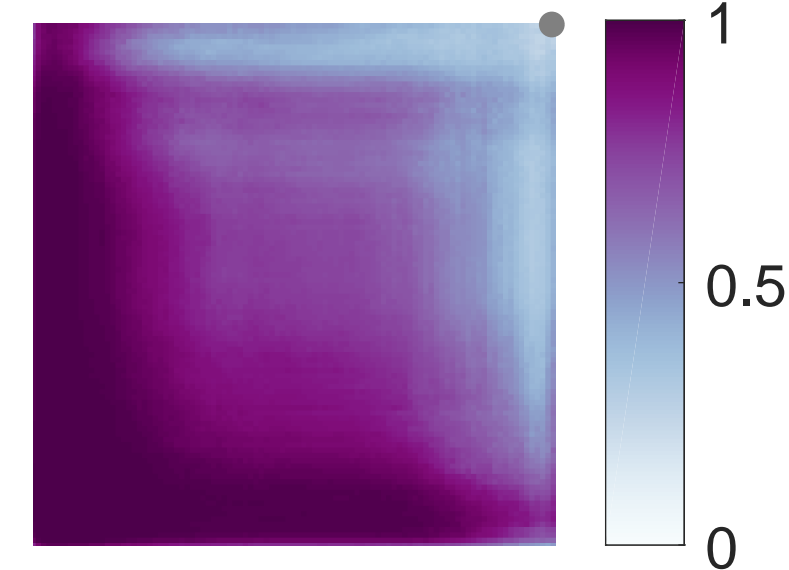
## 4. Multiscale Maps (all scales)

Test Statistics

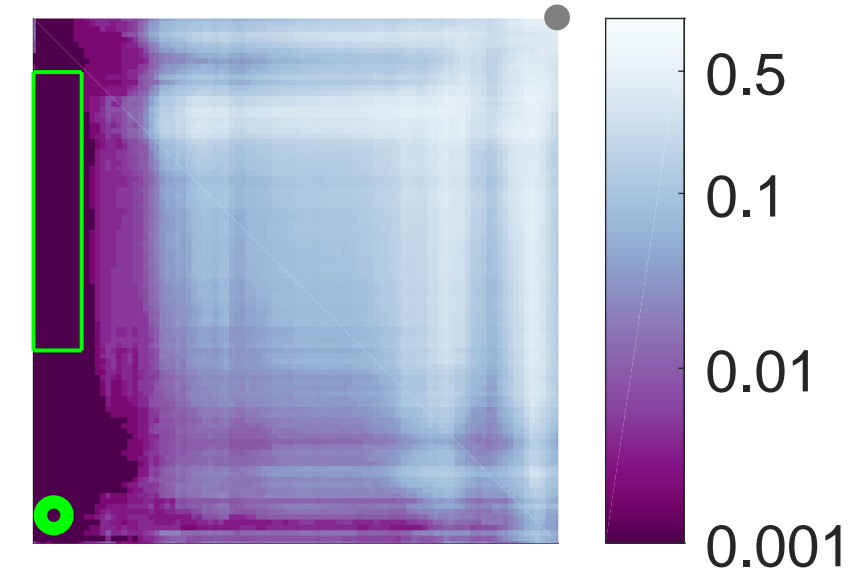


# X Neighbors

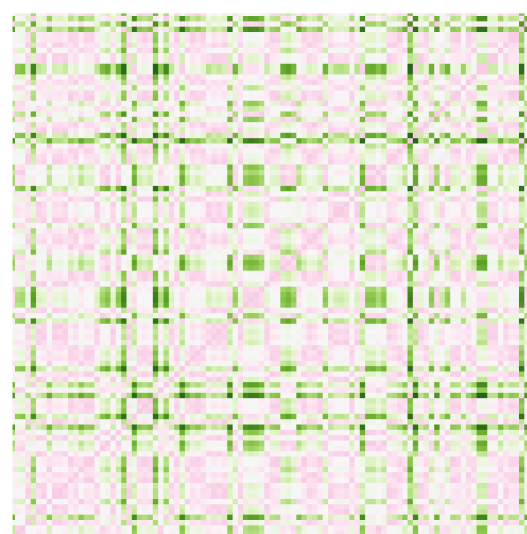
Powers



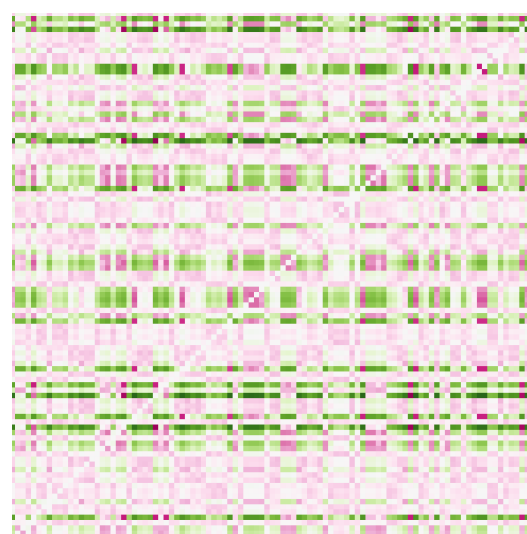
P-Values



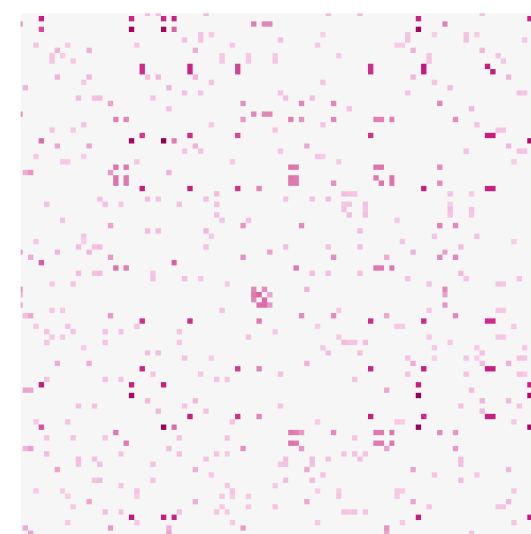
$\tilde{B}$



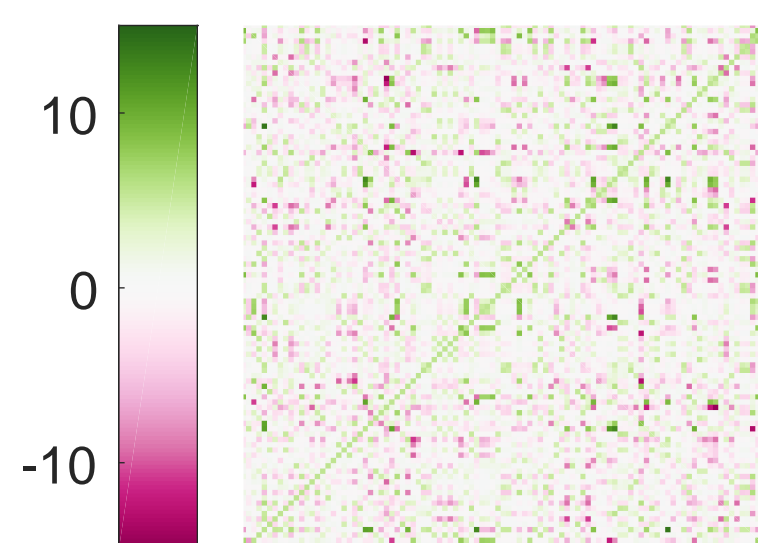
$B$



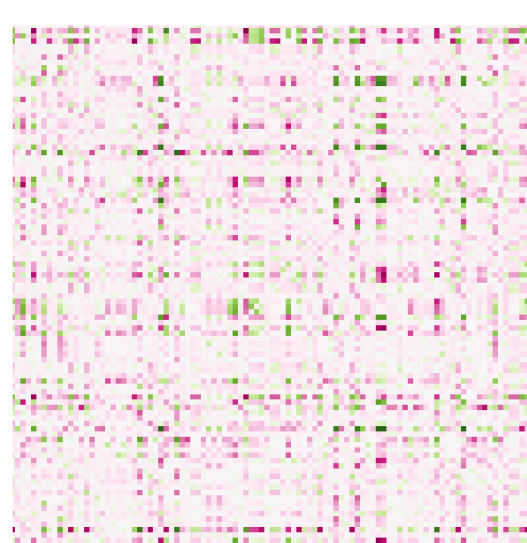
$B^l$



$\tilde{C} = \tilde{A} \circ \tilde{B}$



$C = A \circ B$



$C^{kl} = A^k \circ B^l$

