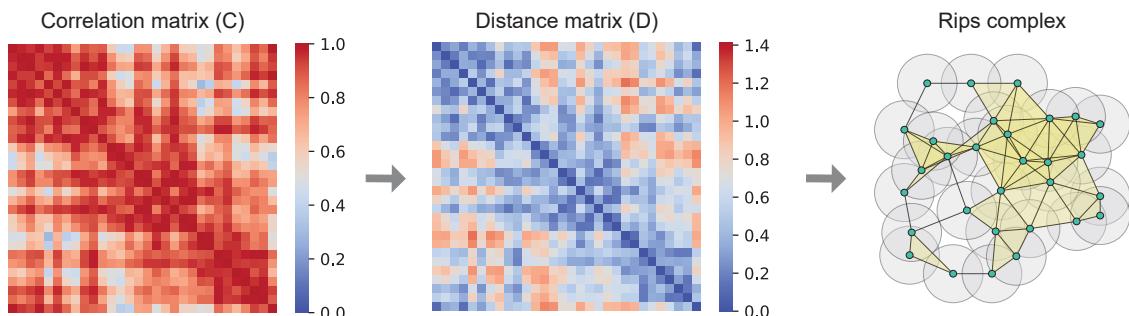


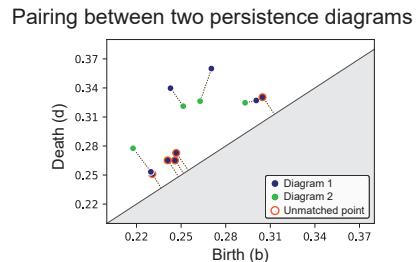
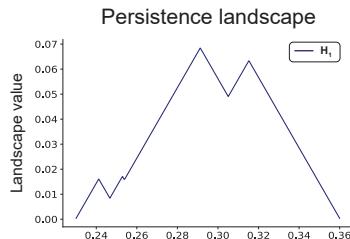
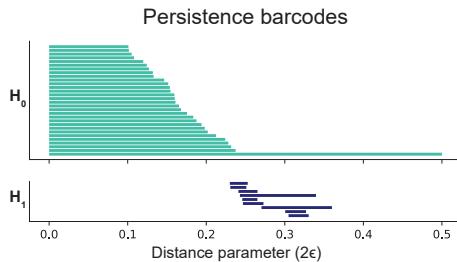
(a)

## Topological Representation



(b)

## Global Measures



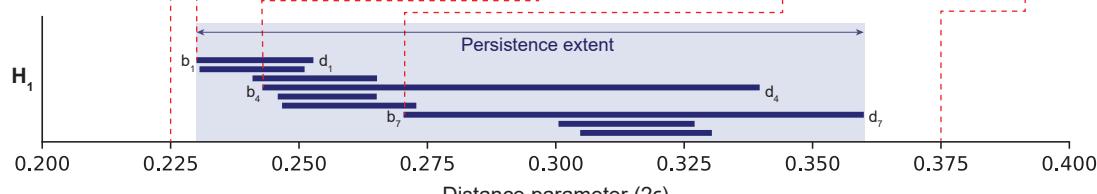
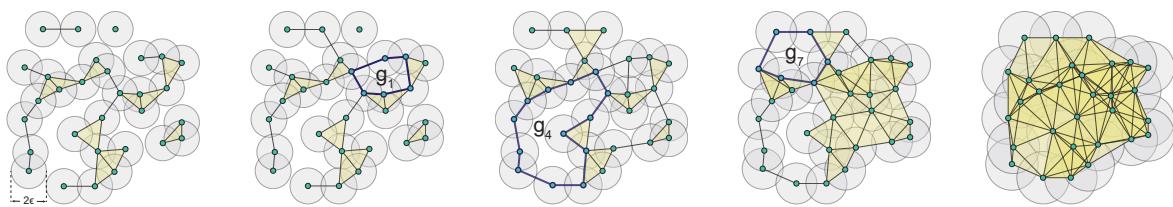
**Persistent entropy of the barcodes**

**$L^p$ -norm of the landscape**

**Wasserstein distance between two diagrams**

(c)

## Local Measures



$$\text{Node persistence } (v) = \frac{\sum_{g_i | v \in g_i} (d_i - b_i)}{\text{Persistence extent}}$$

$$\text{Node frequency } (v) = |\{g_i | v \in g_i\}|$$