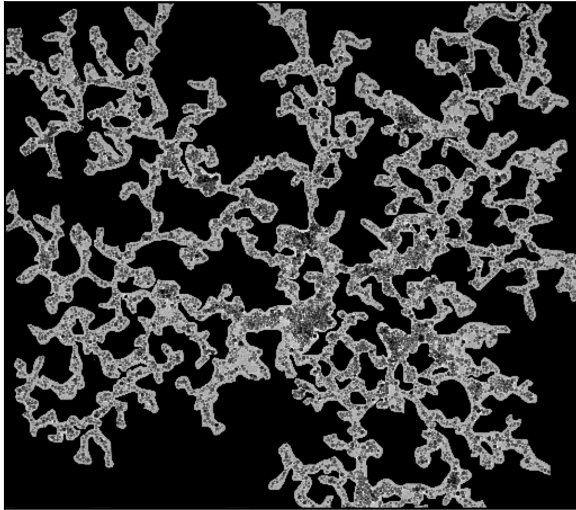
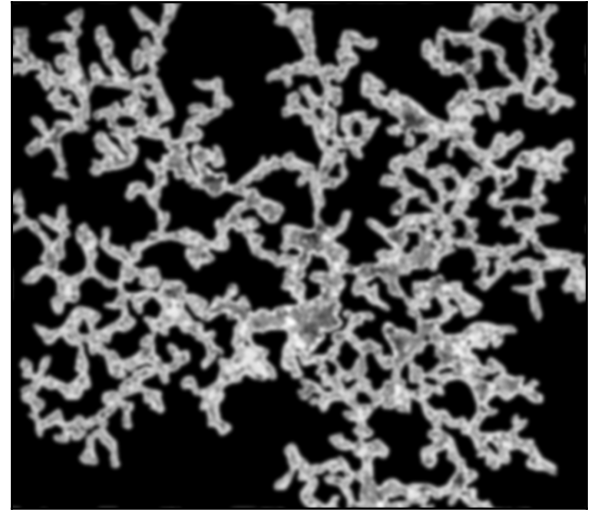


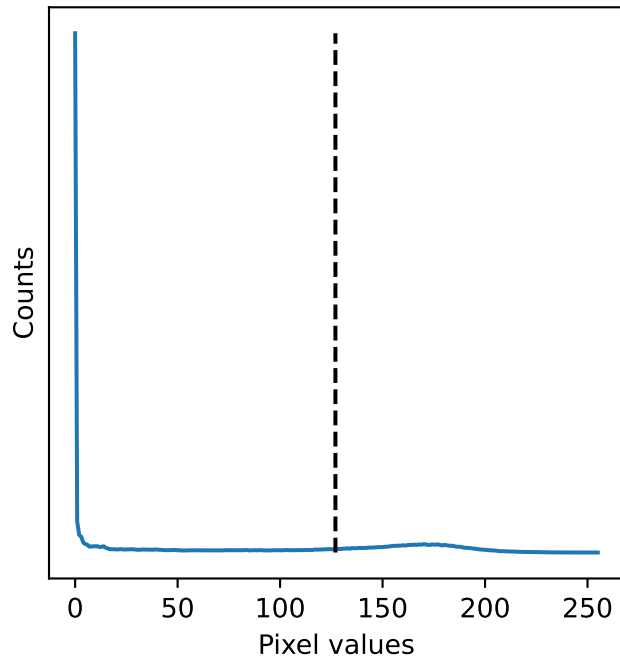
Original Image



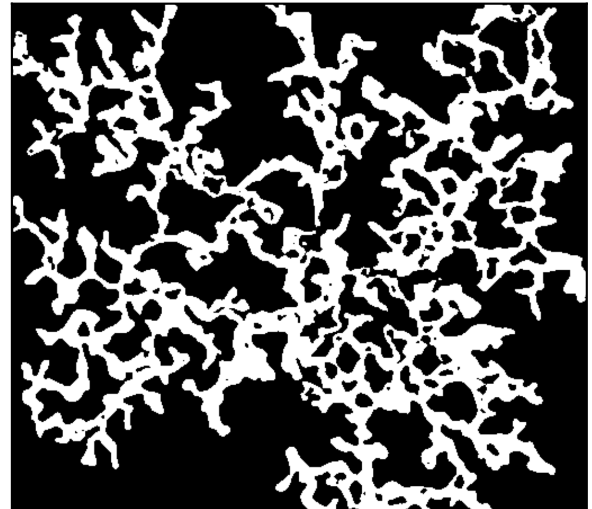
Processed Image



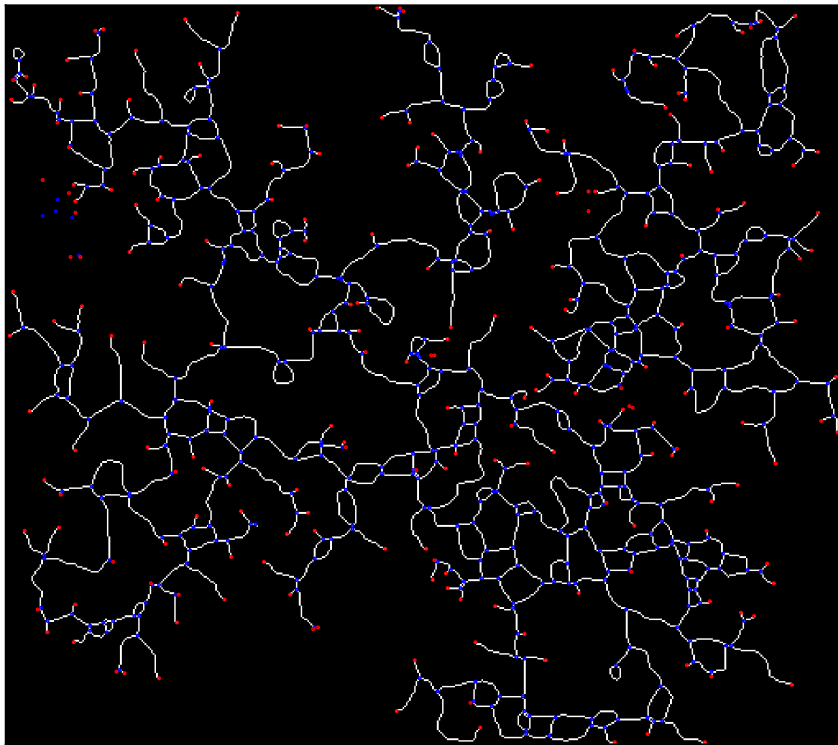
Histogram of Processed Image



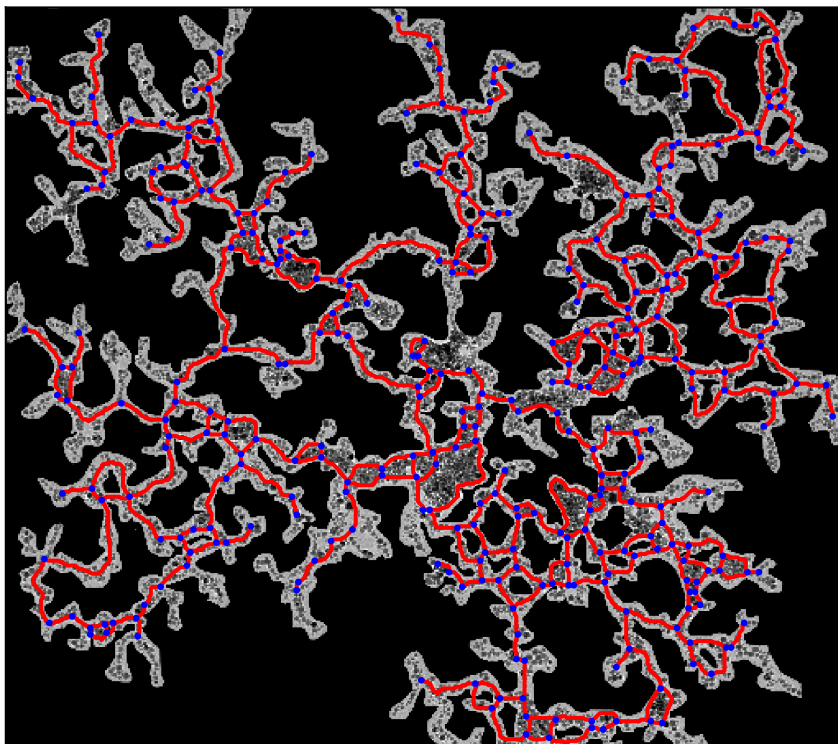
Binary Image



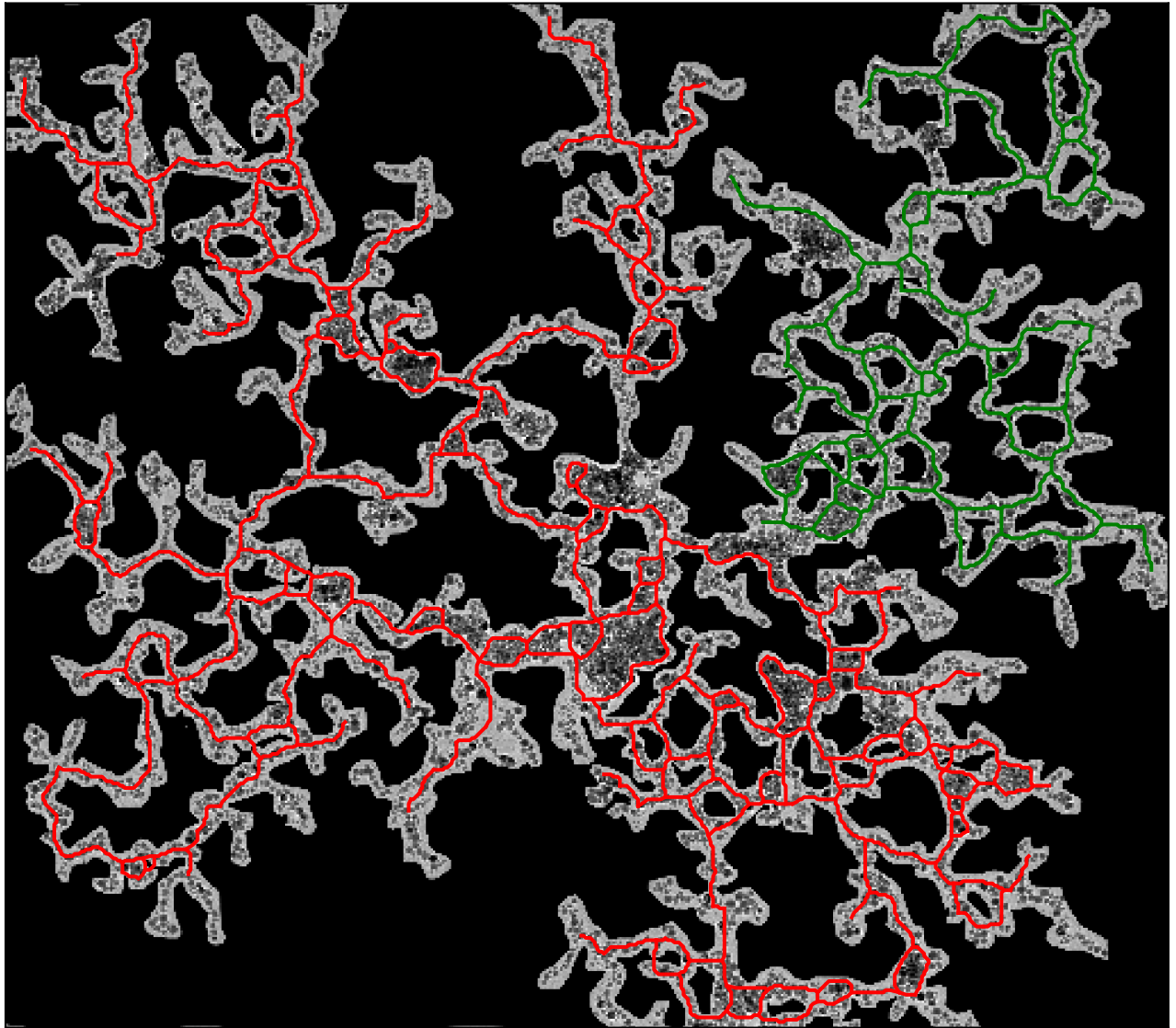
Skeletal Image



Final Graph



Sub Graphs



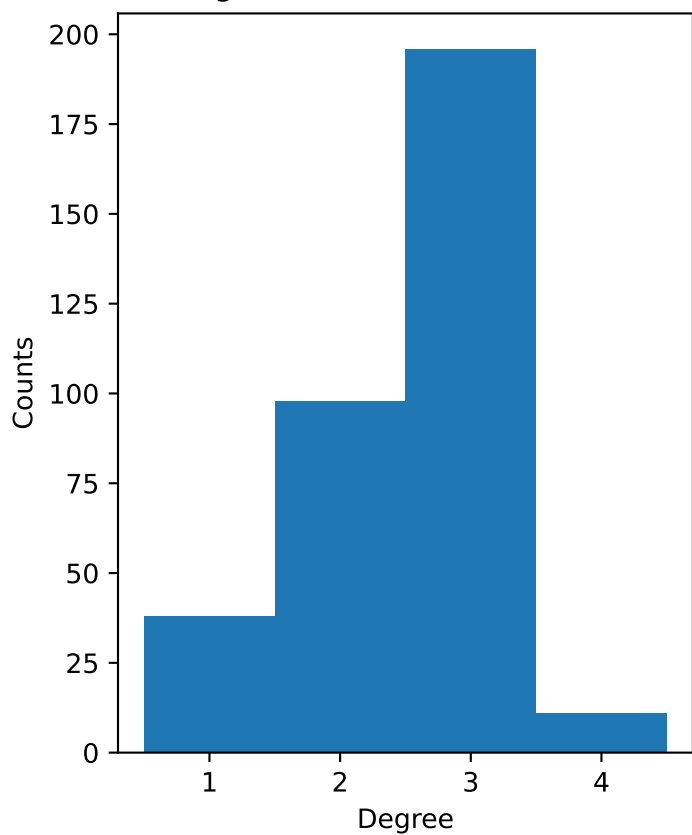
### Unweighted GT parameters

|                                |                       |
|--------------------------------|-----------------------|
| Number of nodes                | 343                   |
| Number of edges                | 433                   |
| Connectedness ratio            | 75.22%                |
| Average degree                 | 2.52478               |
| Network diameter               | NaN                   |
| Average nodal connectivity     | NaN                   |
| Graph density                  | 0.00738               |
| Global efficiency              | 0.06428               |
| Wiener Index                   | inf                   |
| Assortativity coefficient      | 0.18065               |
| Average clustering coefficient | 0.07677               |
| Average betweenness centrality | 0.02767               |
| Average eigenvector centrality | 0.01478               |
| Average closeness centrality   | 0.04163               |
| Subgraph Count                 | 2                     |
| Large Subgraph Node Count      | 258                   |
| Large Subgraph Edge Count      | 322                   |
| Small Subgraph Node Count      | 85                    |
| Small Subgraph Edge Count      | 109                   |
| Graph Conductance (max)        | 0.03952055866342572   |
| Graph Conductance (min)        | 0.0003904686392673185 |

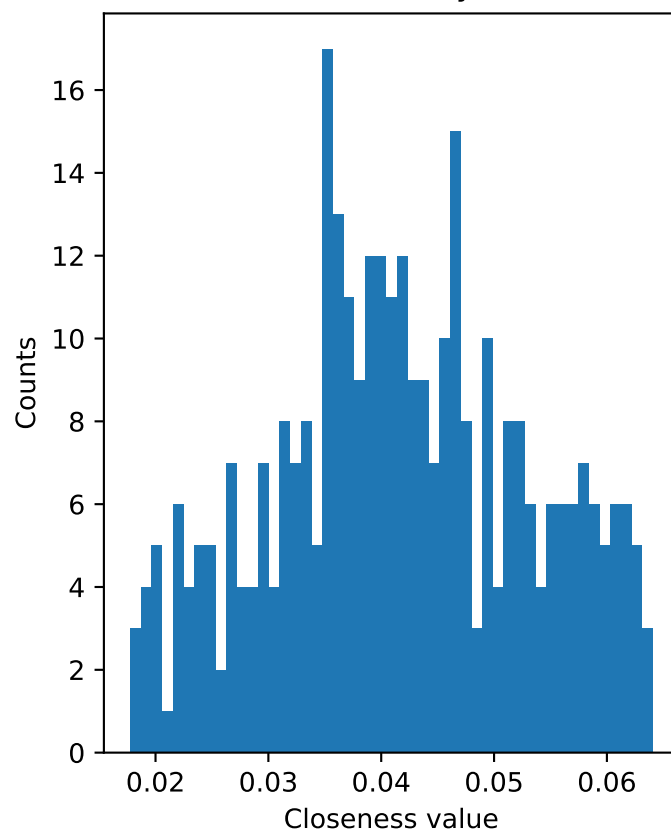
## Weighted GT Parameters

|   |                                |
|---|--------------------------------|
| Weighted average degree                       | 2.55157                        |
| Length-weighted Wiener Index                  | inf                            |
| Max flow between periphery                    | NaN                            |
| Weighted assortativity coefficient            | 0.44131                        |
| Width-weighted average betweenness centrality | 0.03152                        |
| Length-weighted average closeness centrality  | 0.00221                        |
| Width-weighted average eigenvector centrality | 0.00496                        |
| Weighted Subgraph Count                       | Weighted 2                     |
| Weighted Large Subgraph Node Count            | Weighted 258                   |
| Weighted Large Subgraph Edge Count            | Weighted 322                   |
| Weighted Small Subgraph Node Count            | Weighted 85                    |
| Weighted Small Subgraph Edge Count            | Weighted 109                   |
| Weighted Graph Conductance (max)              | Weighted 0.03952055866342572   |
| Weighted Graph Conductance (min)              | Weighted 0.0003904686392673185 |

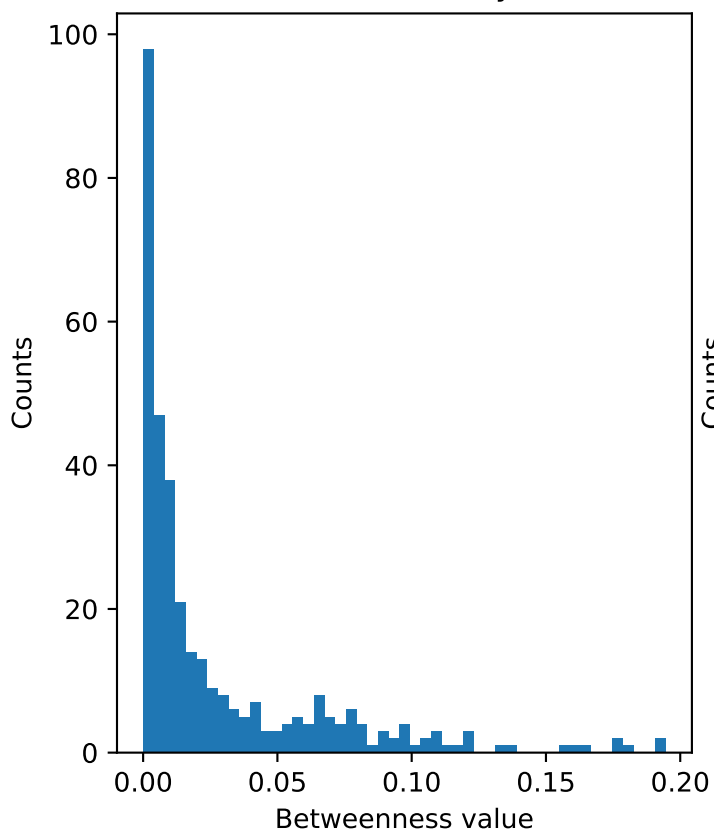
Degree Distribution:  $\sigma=0.733$



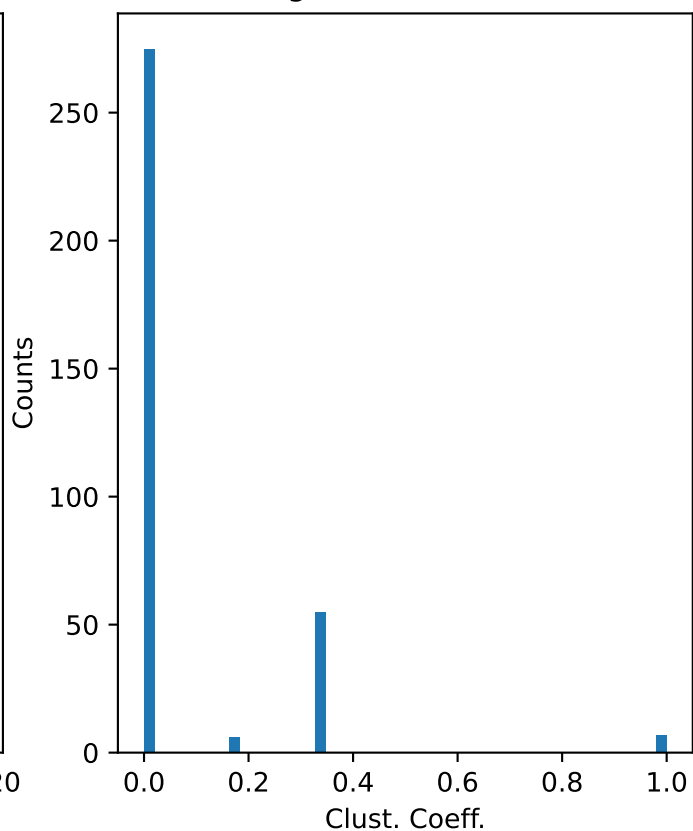
Closeness Centrality:  $\sigma=0.011$



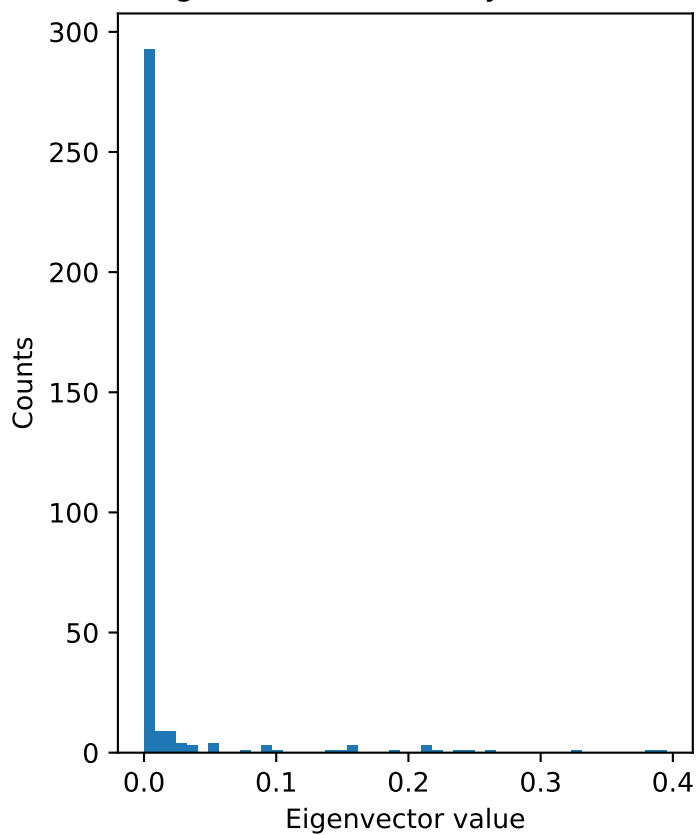
Betweenness Centrality:  $\sigma=0.038$



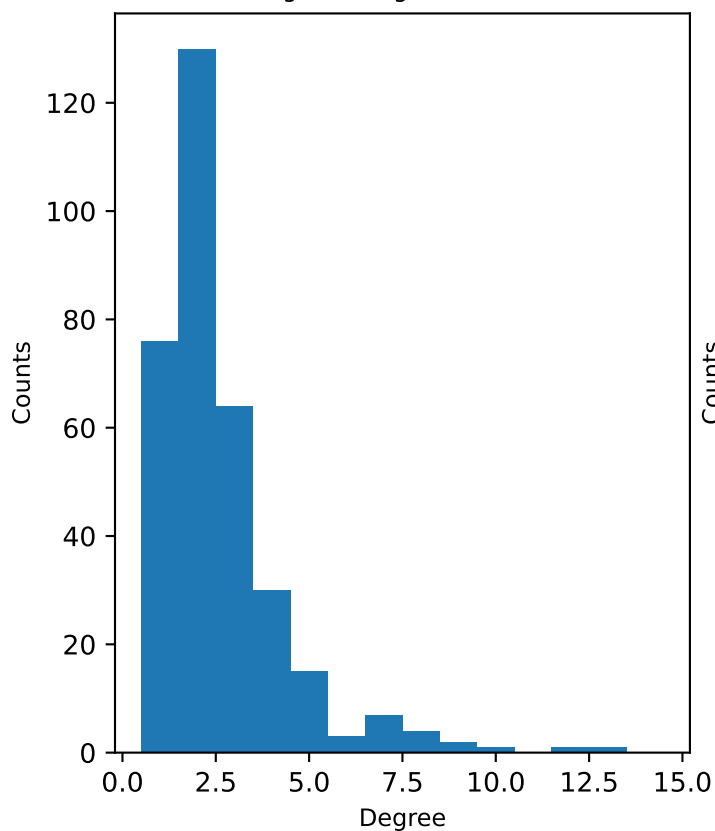
Clustering Coefficients:  $\sigma=0.181$



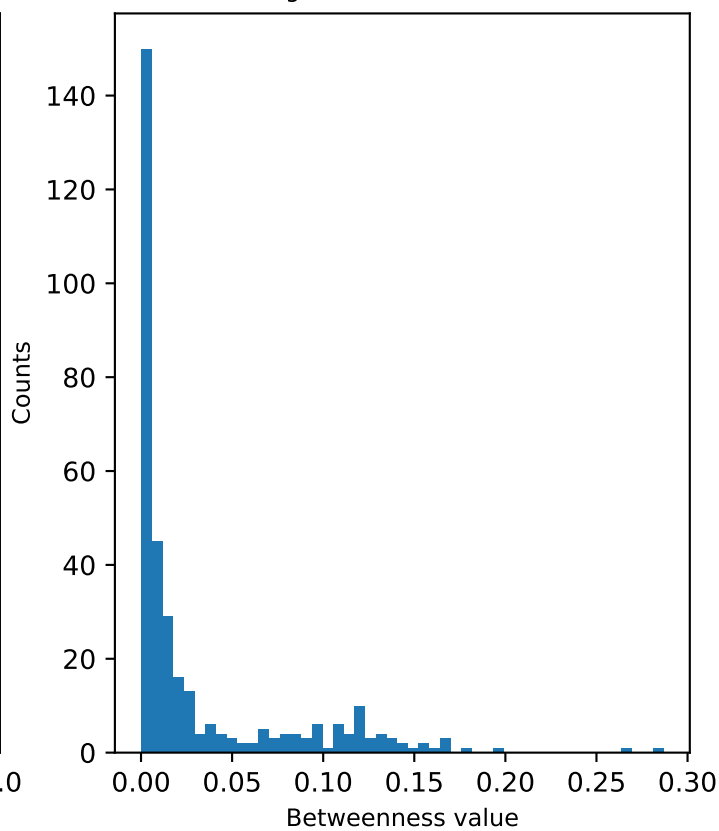
Eigenvector Centrality:  $\sigma=0.052$



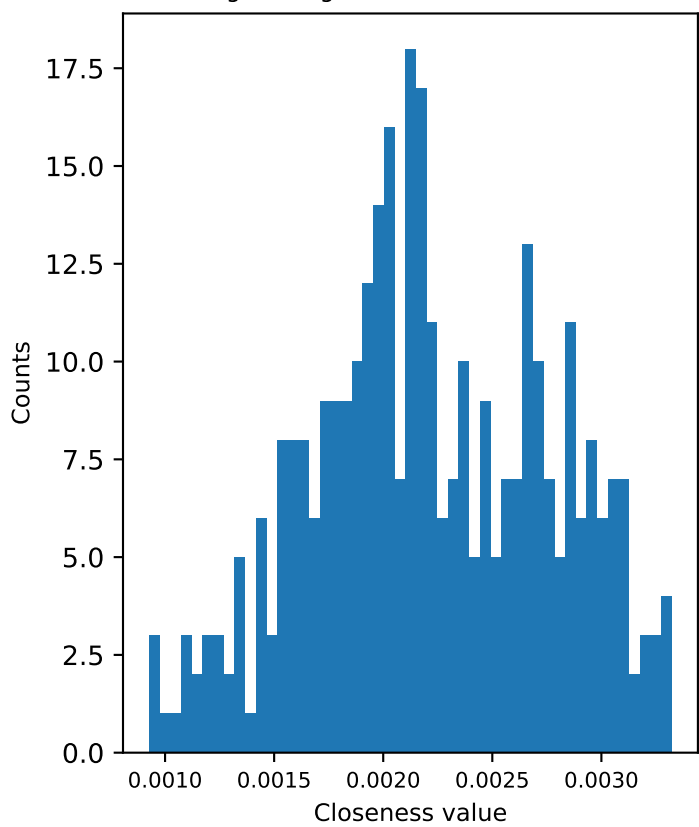
Weighted Degree:  $\sigma=1.789$



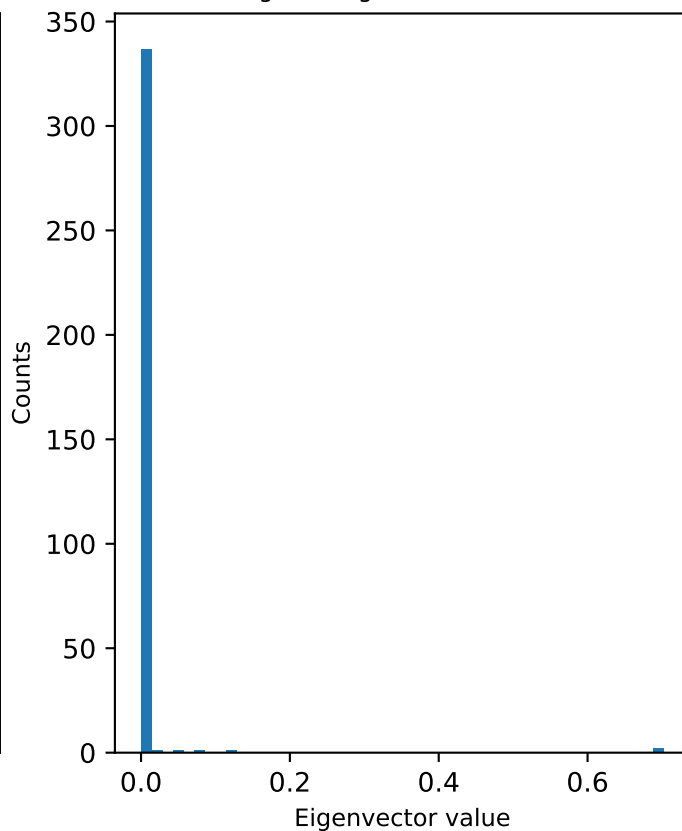
Width-Weighted Betweenness:  $\sigma=0.048$



Length-Weighted Closeness:  $\sigma=0.001$

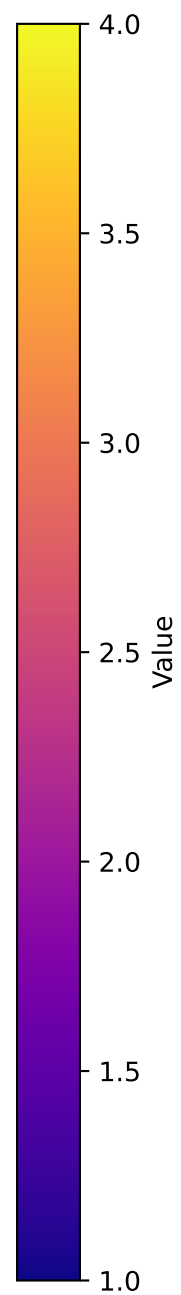
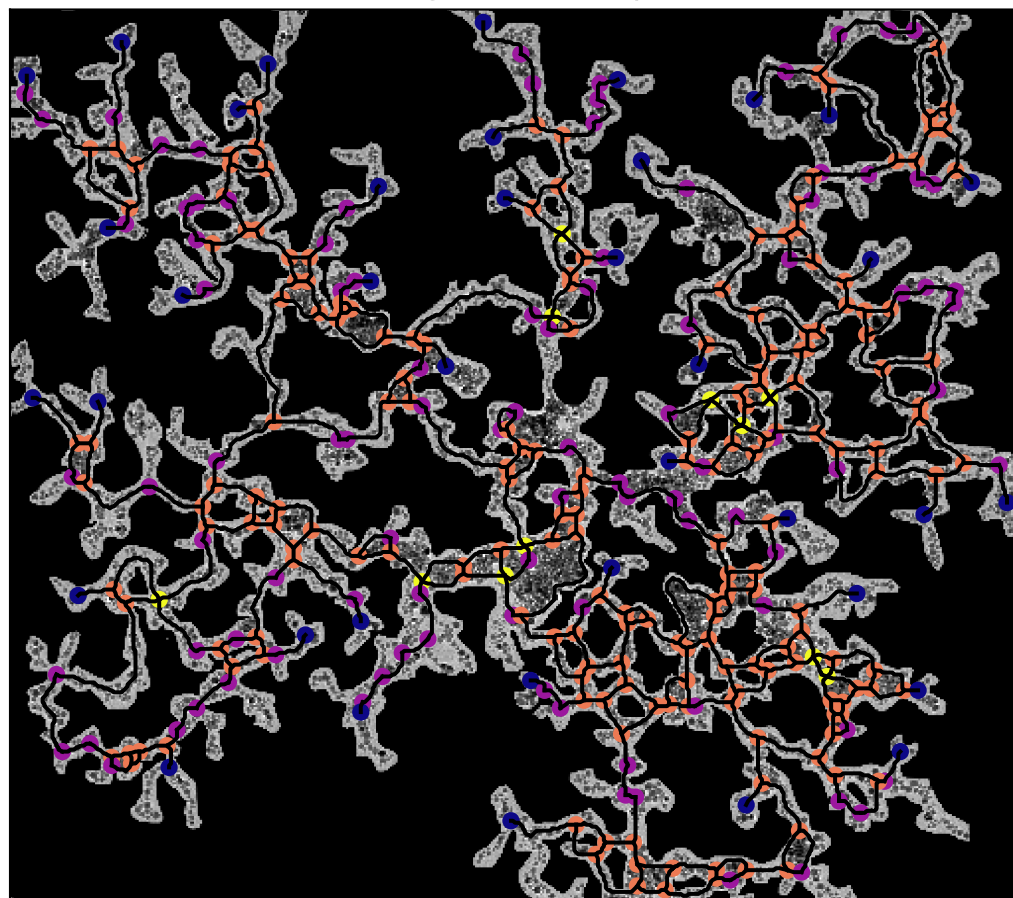


Width-Weighted Eigenvector Cent.:  $\sigma=0.054$

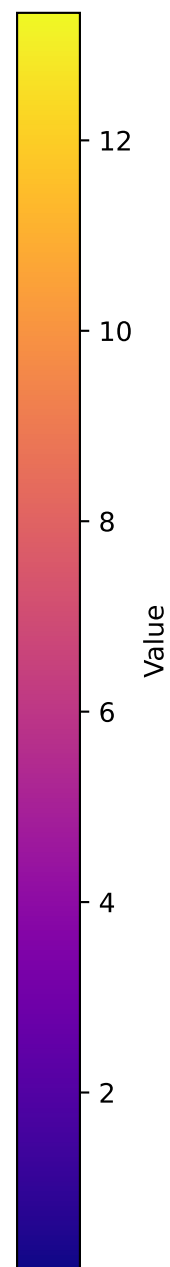
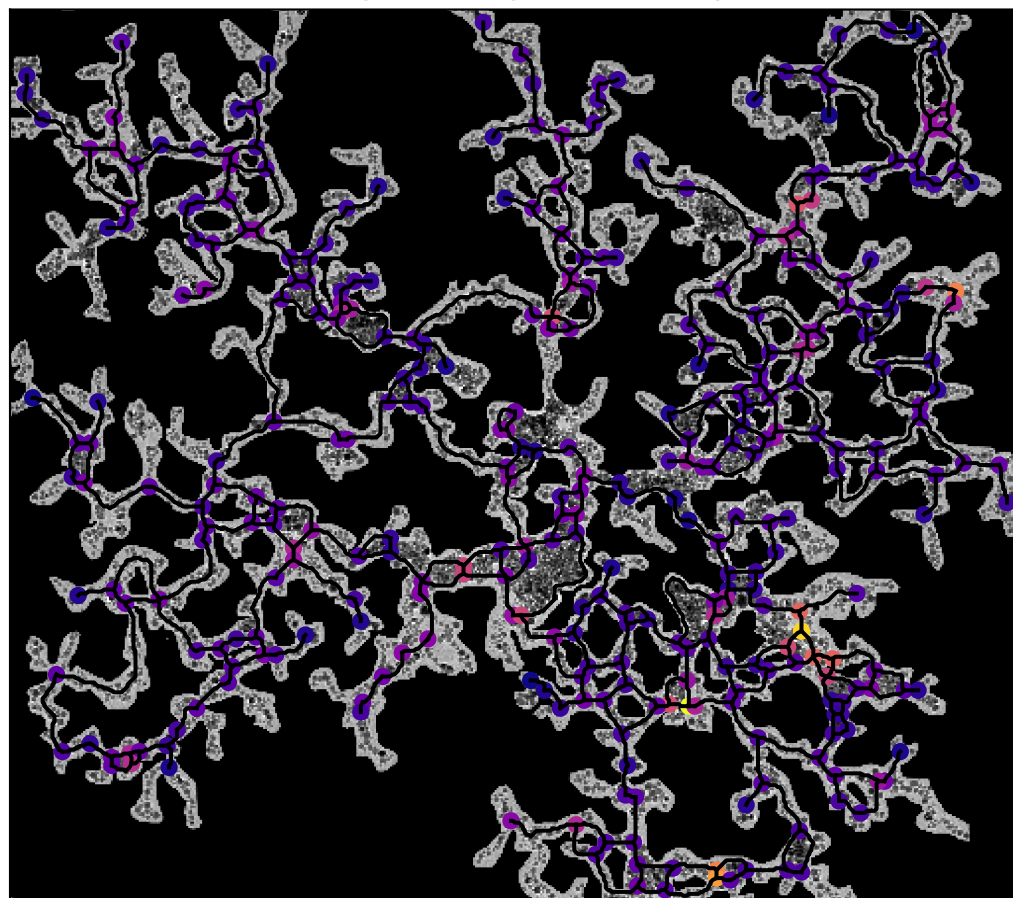




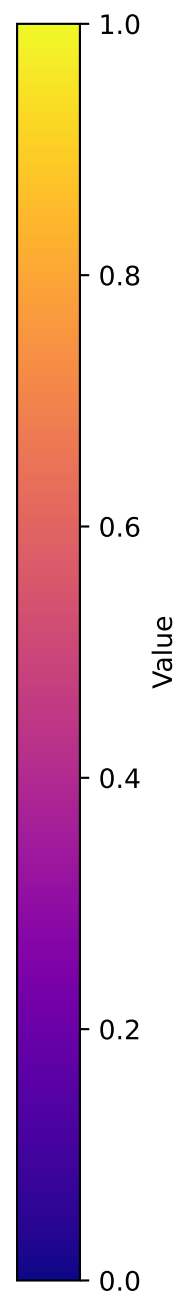
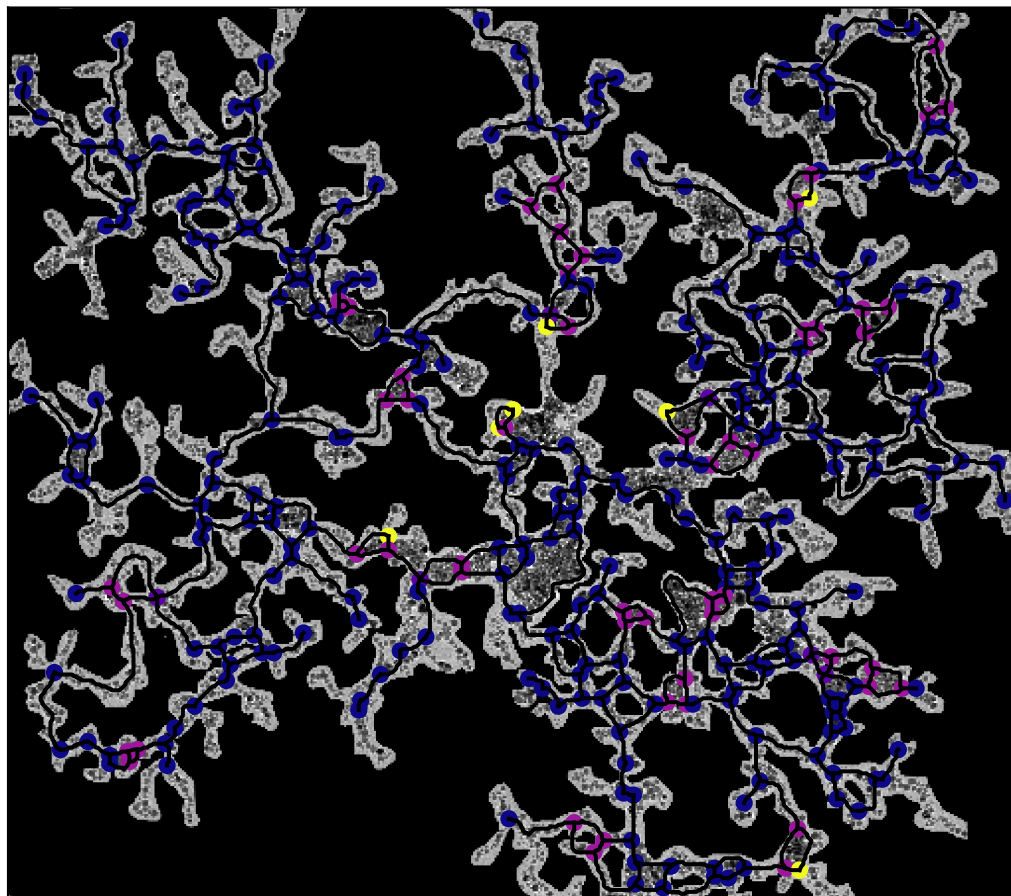
Degree Heatmap



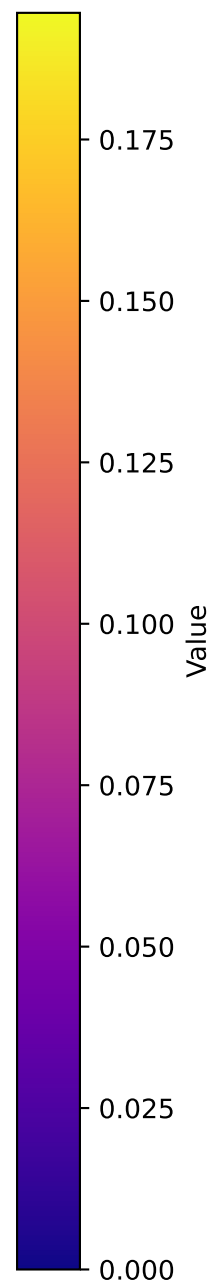
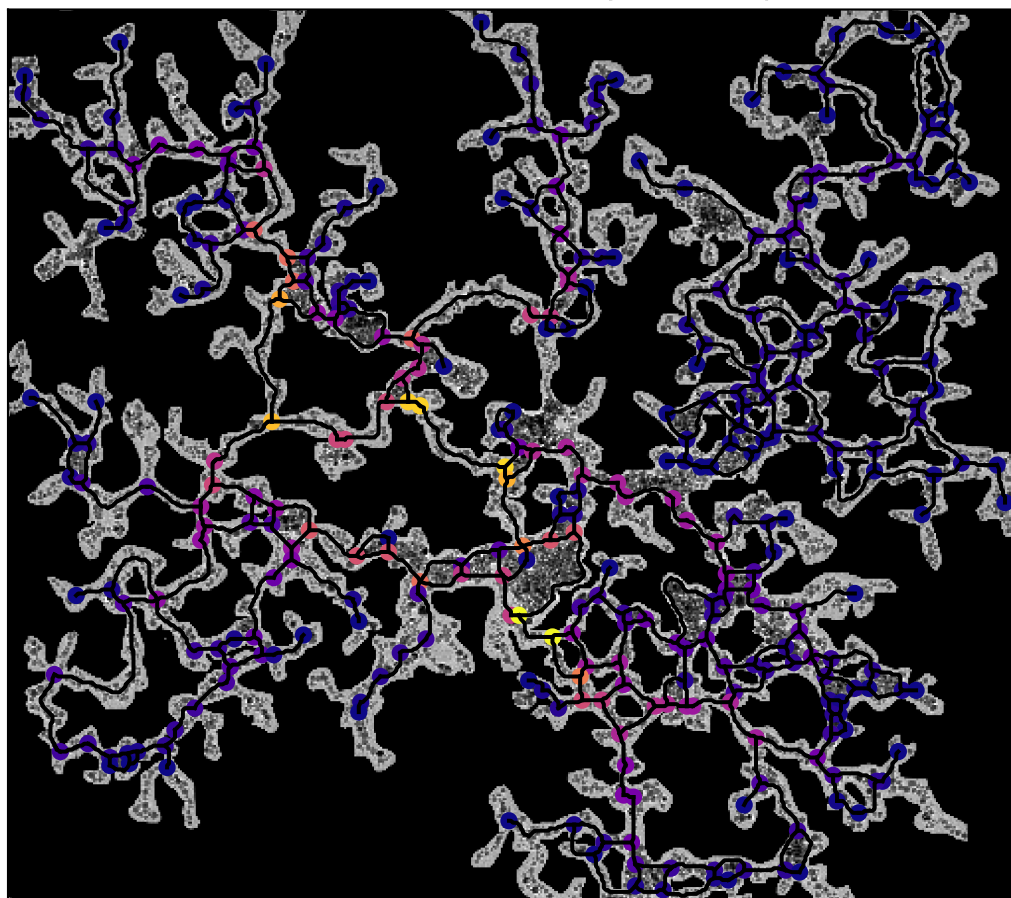
Weighted Degree Heatmap



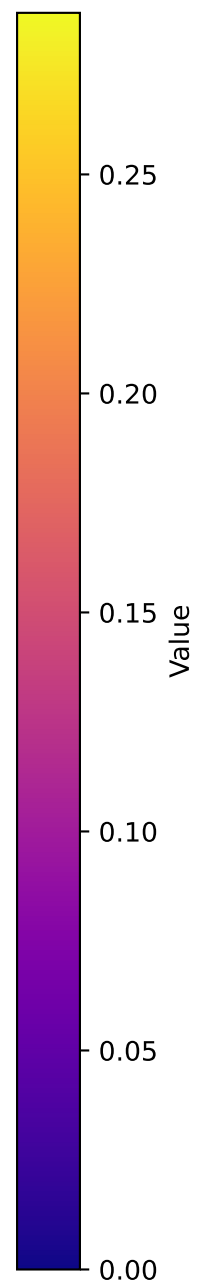
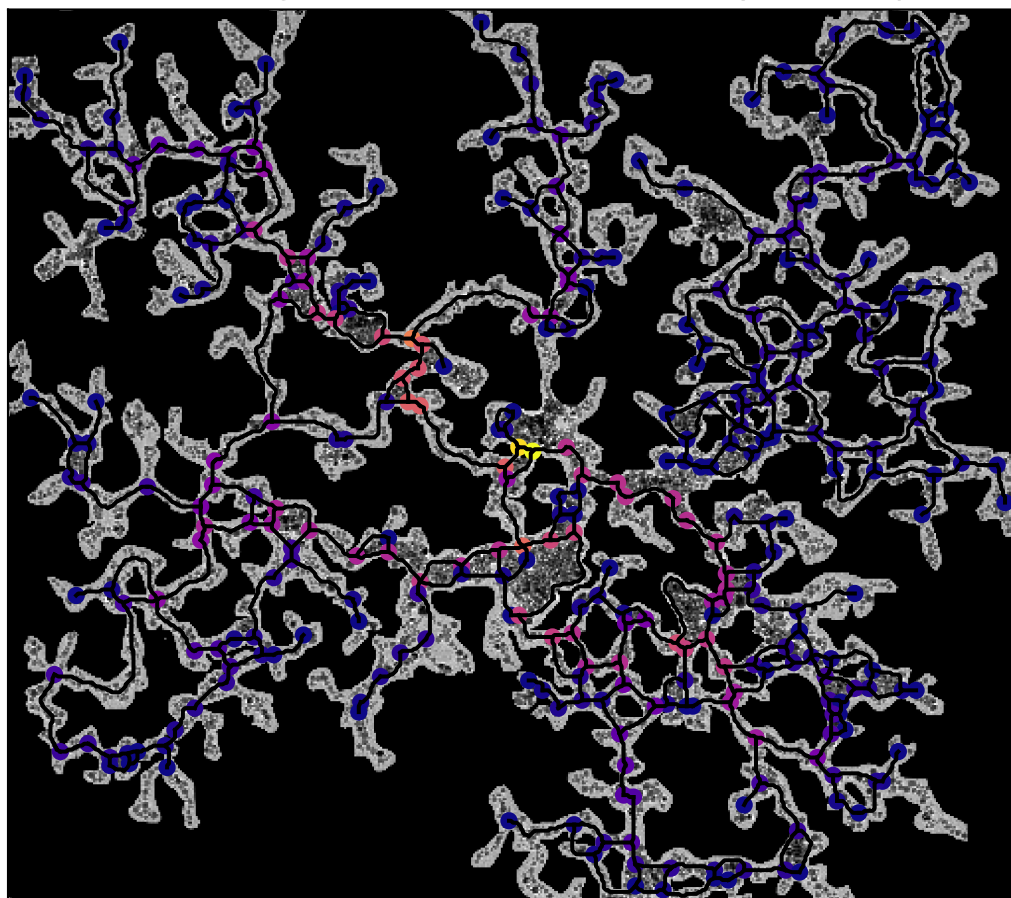
Clustering Coefficient Heatmap



Betweenness Centrality Heatmap

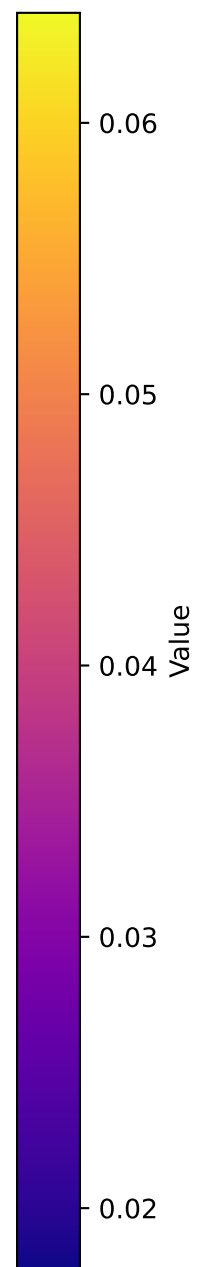
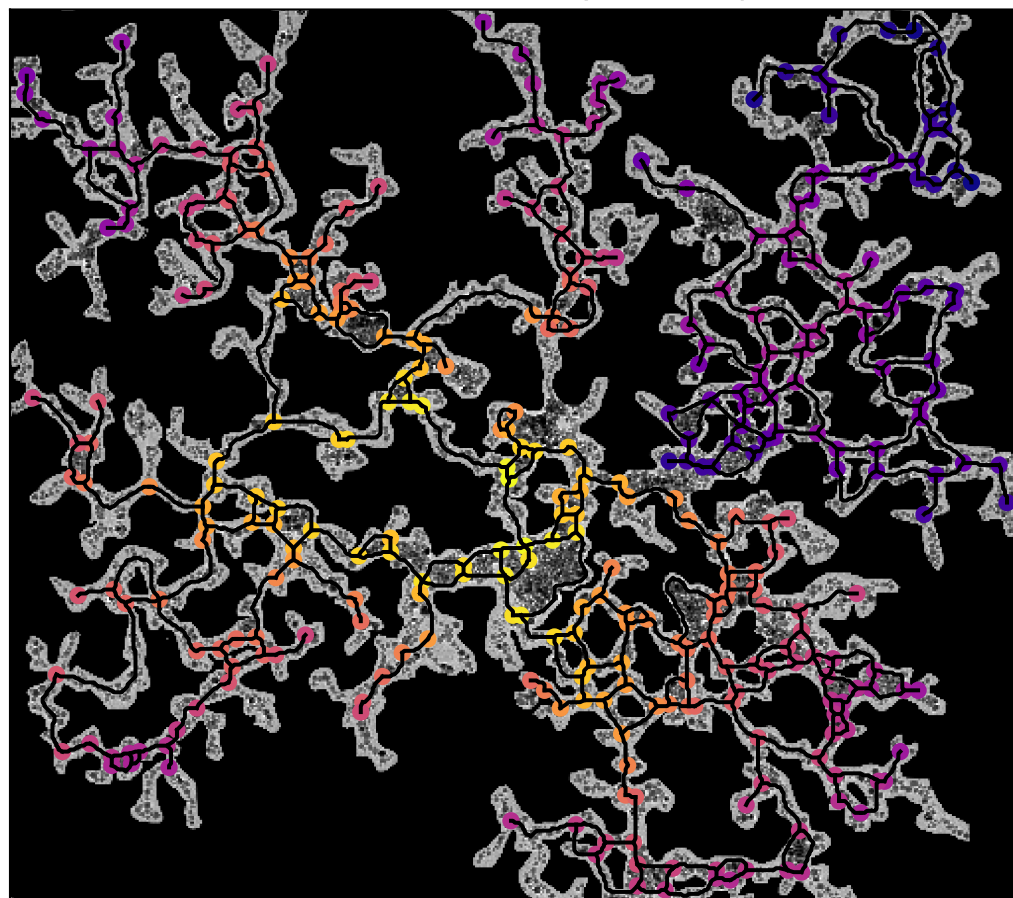


Width-Weighted Betweenness Centrality Heatmap

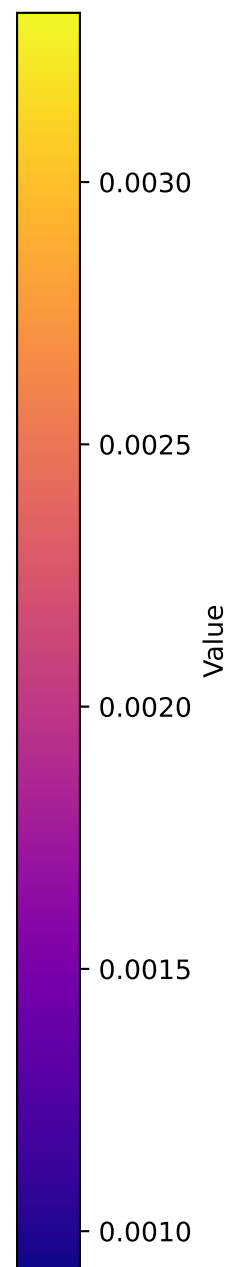
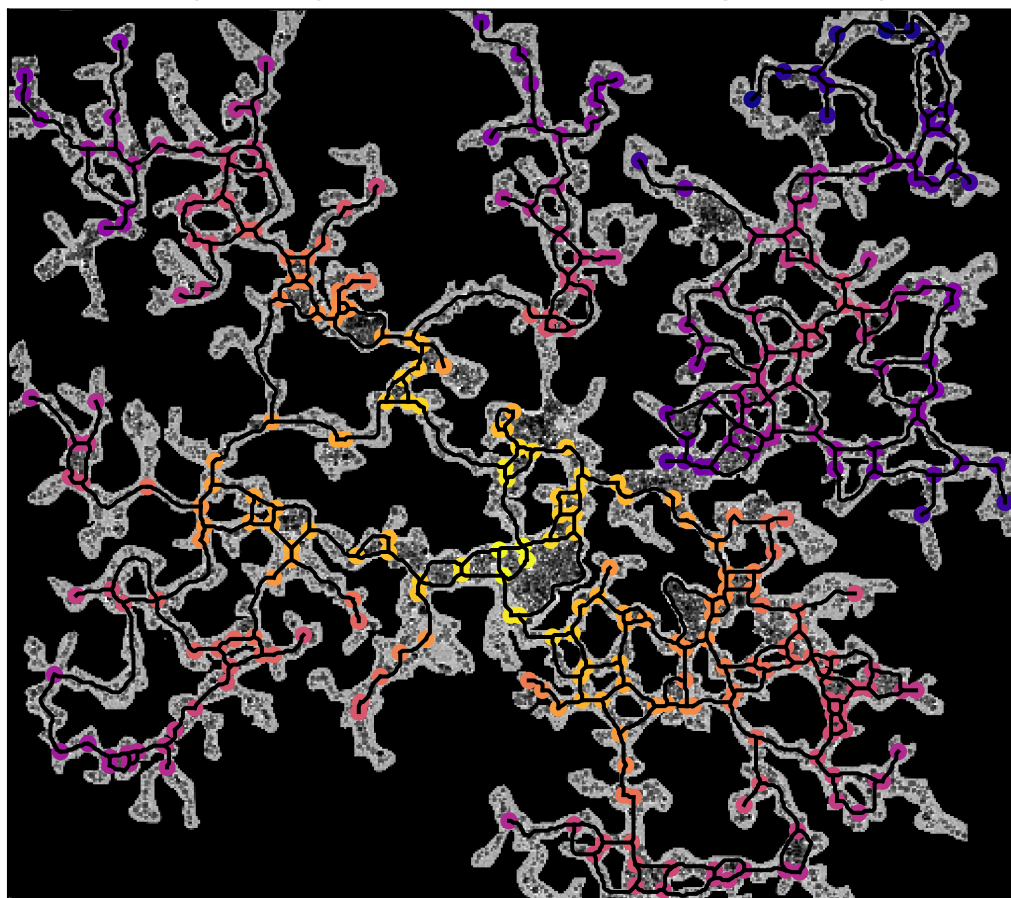




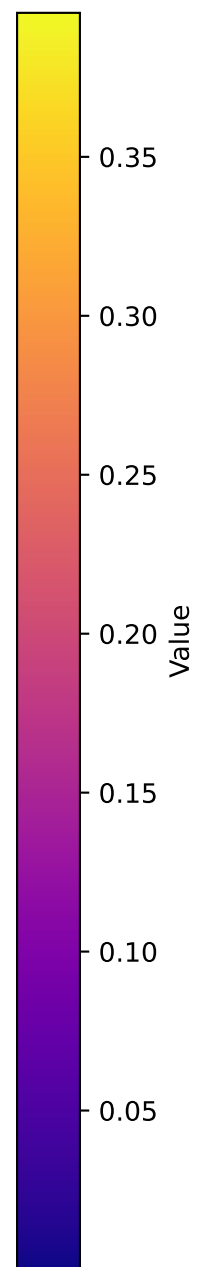
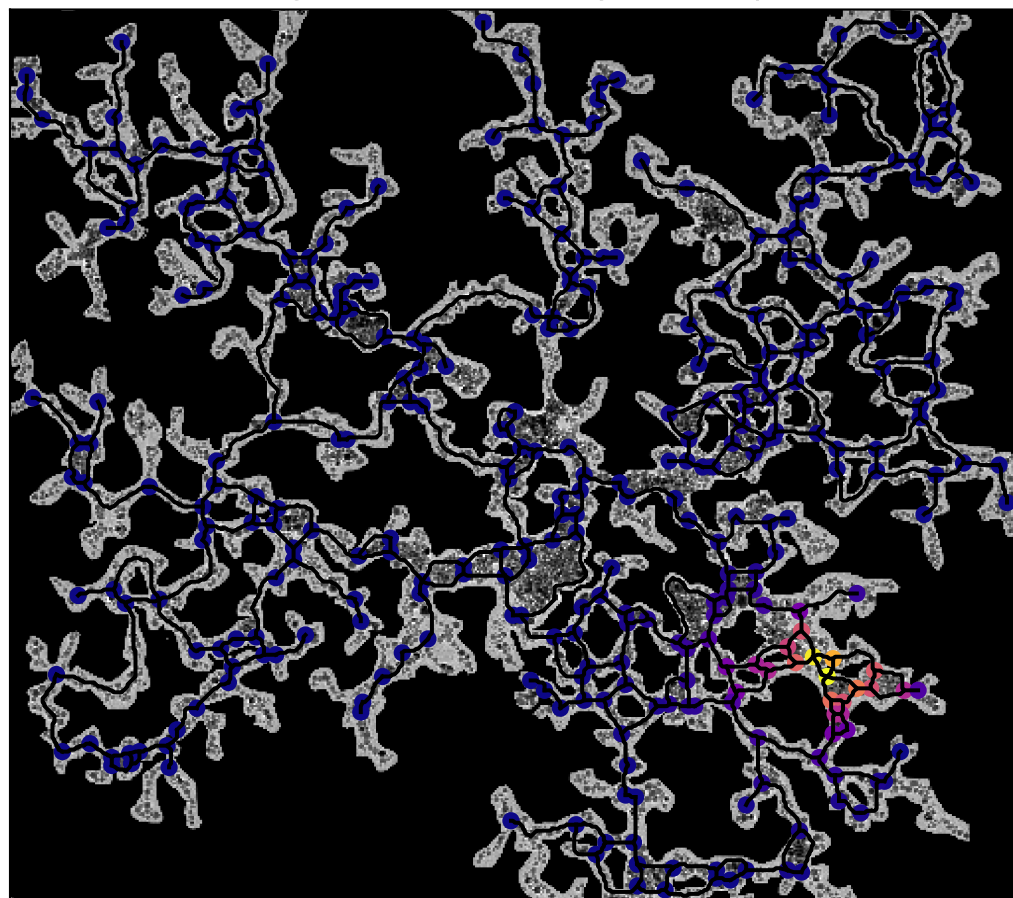
Closeness Centrality Heatmap



Length-Weighted Closeness Centrality Heatmap

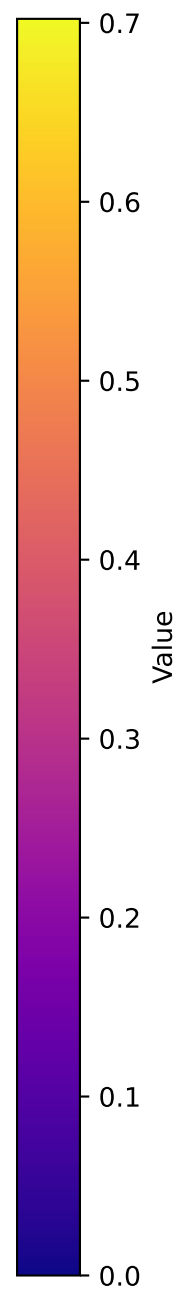
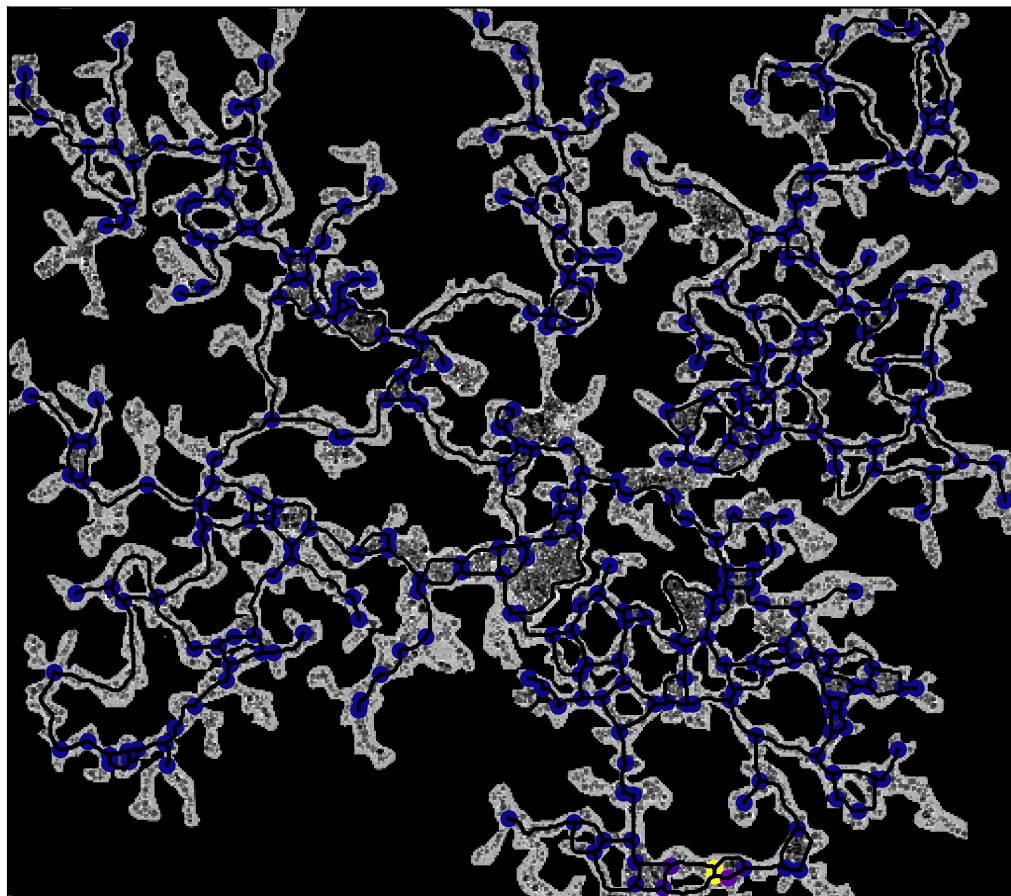


Eigenvector Centrality Heatmap





Width-Weighted Eigenvector Centrality Heatmap



#### Run Info

/Users/owuorjnr/owProjects/kotov\_lab/chaos-gt/examples/SR\_NPs.tif || 2024-02-10 17:31:52  
|| Global Threshold (127) || Gaussian Blur, None bit kernel || Low-pass filterNone  
|| Merge Nodes || Prune Dangling Edges || Remove Objects of Size 500 || Remove Self Loops