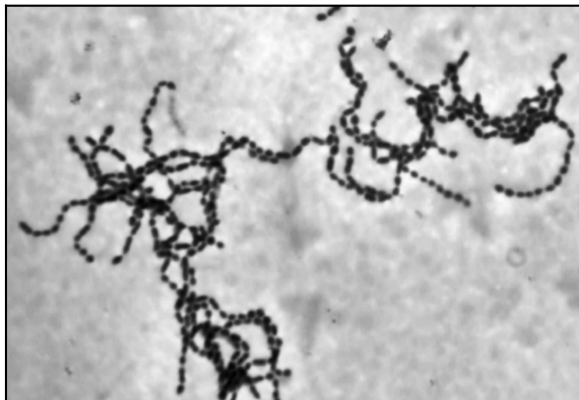
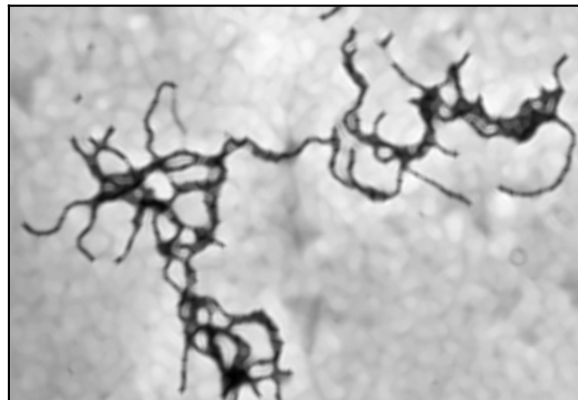


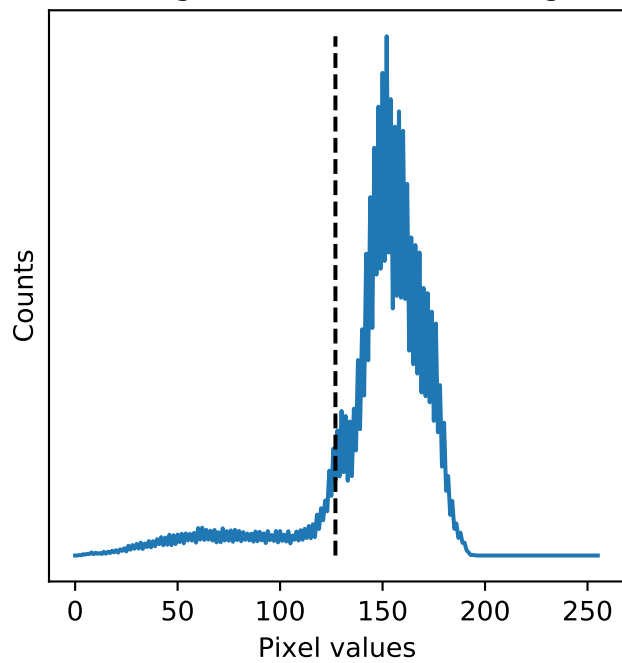
Original Image



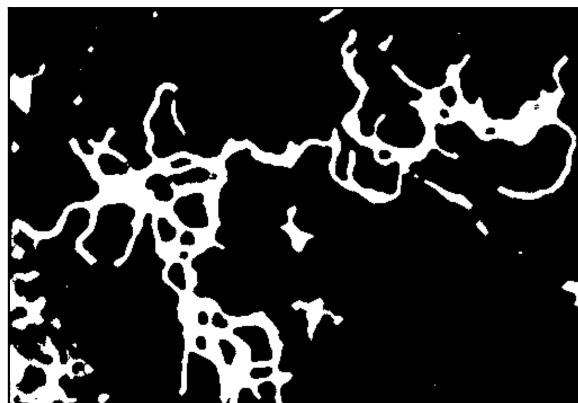
Processed Image



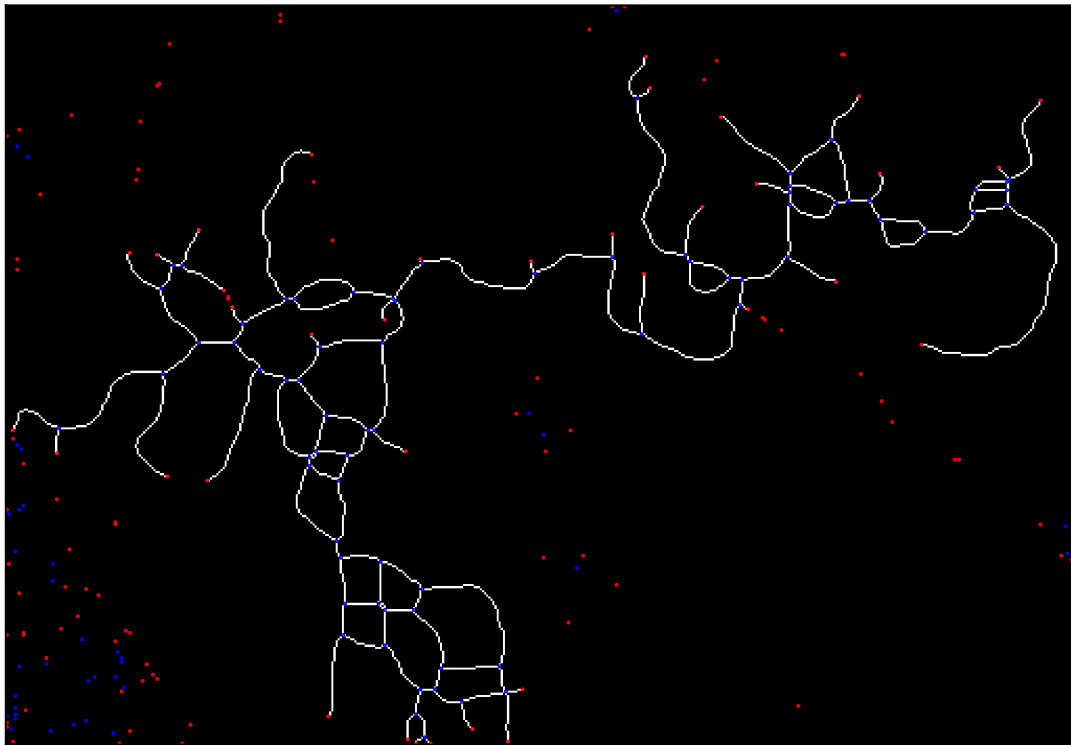
Histogram of Processed Image



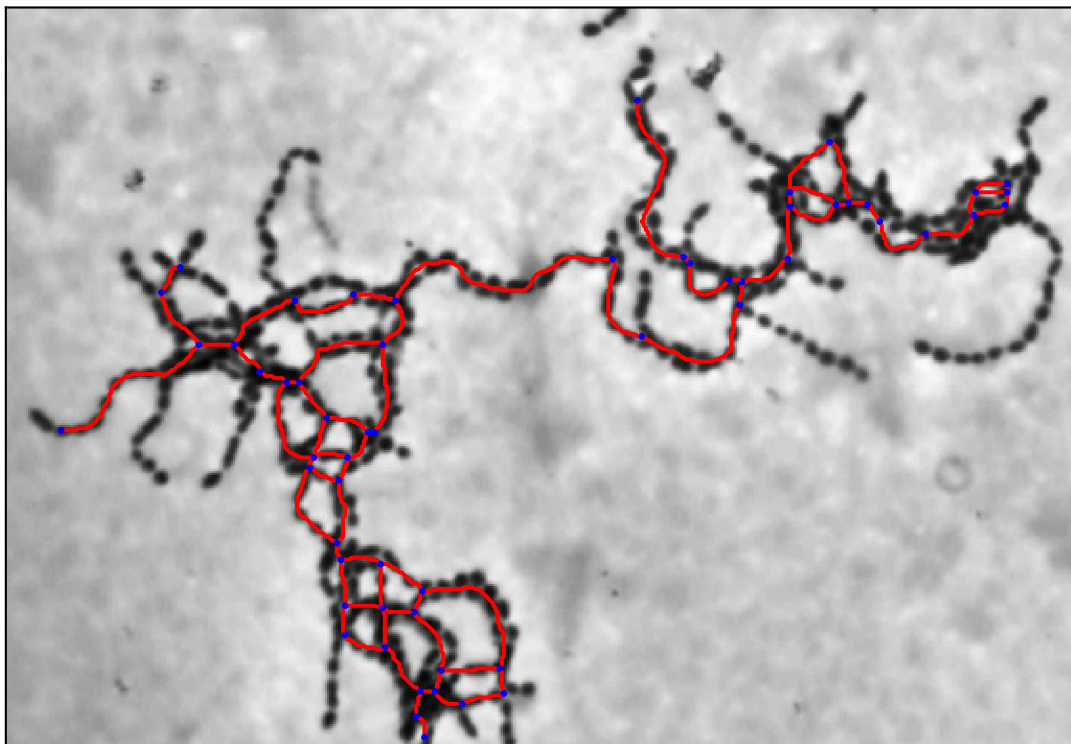
Binary Image



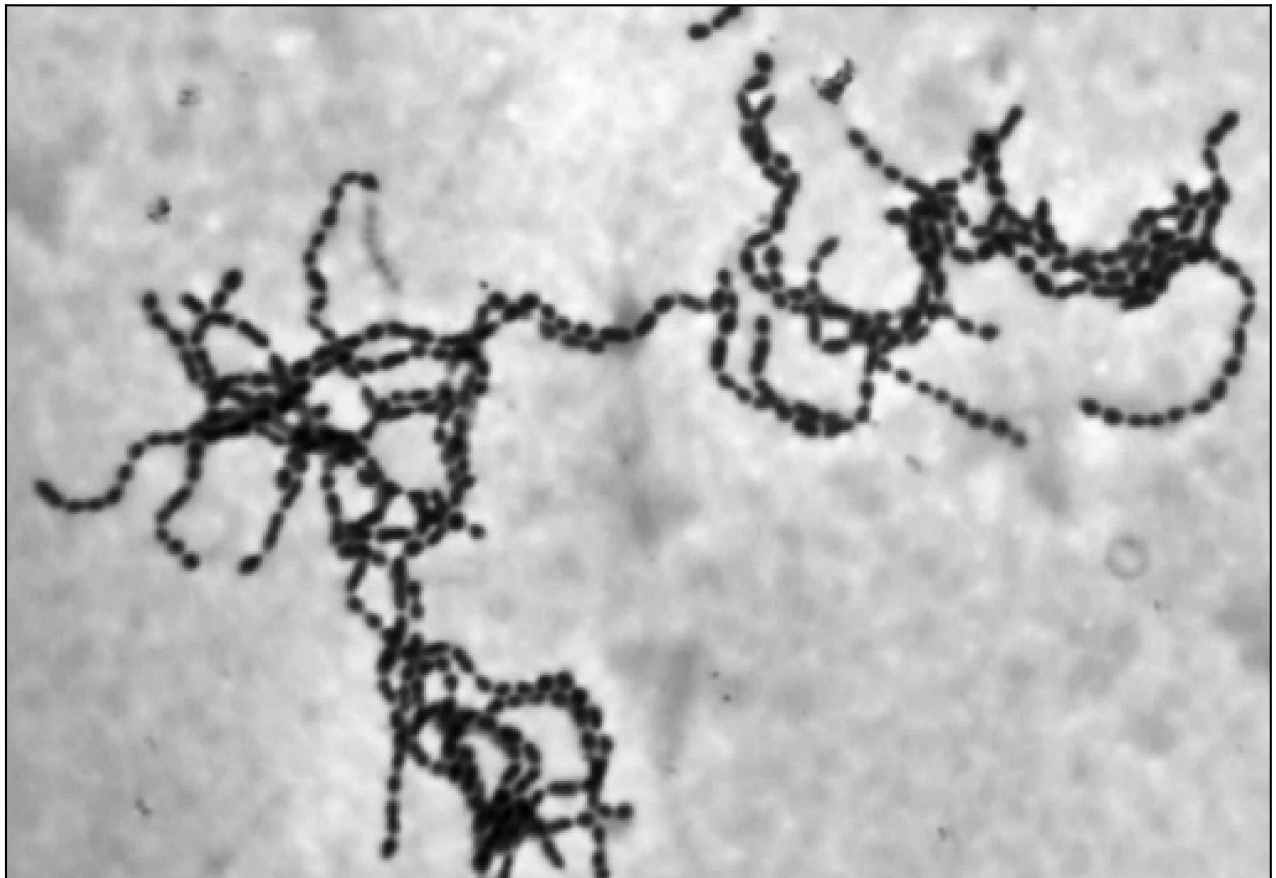
Skeletal Image



Final Graph



Sub Graphs



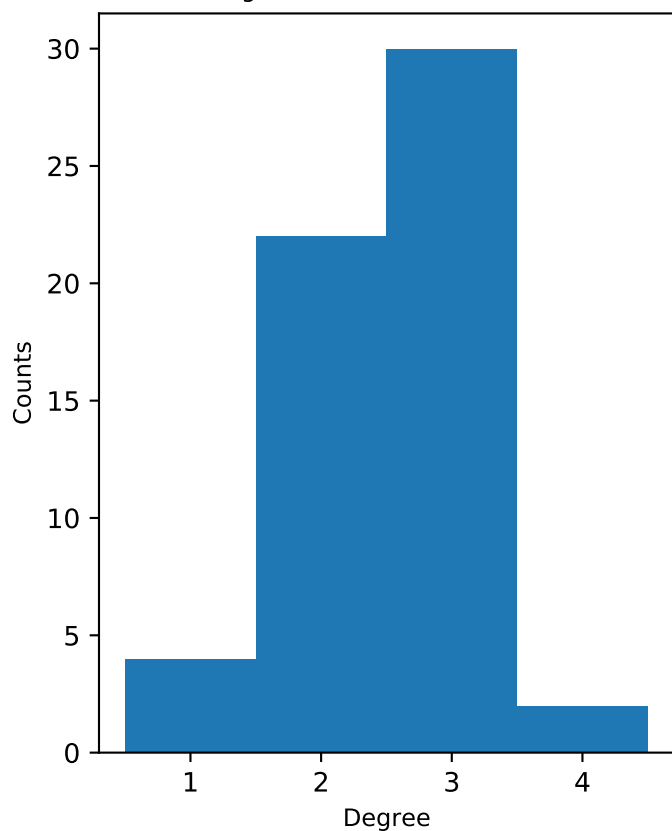
Unweighted GT parameters

Number of nodes	58.0
Number of edges	73.0
Average degree	2.51724
Network diameter	27.0
Graph density	0.04416
Global efficiency	0.18847
Wiener Index	16307.0
Average clustering coefficient	0.06322
Average nodal connectivity	1.17302
Assortativity coefficient	0.26927
Average betweenness centrality	0.15831
Average closeness centrality	0.10648
Average eigenvector centrality	0.08491
Graph Conductance (max)	0.0663094721247957
Graph Conductance (min)	0.0010992365233672644

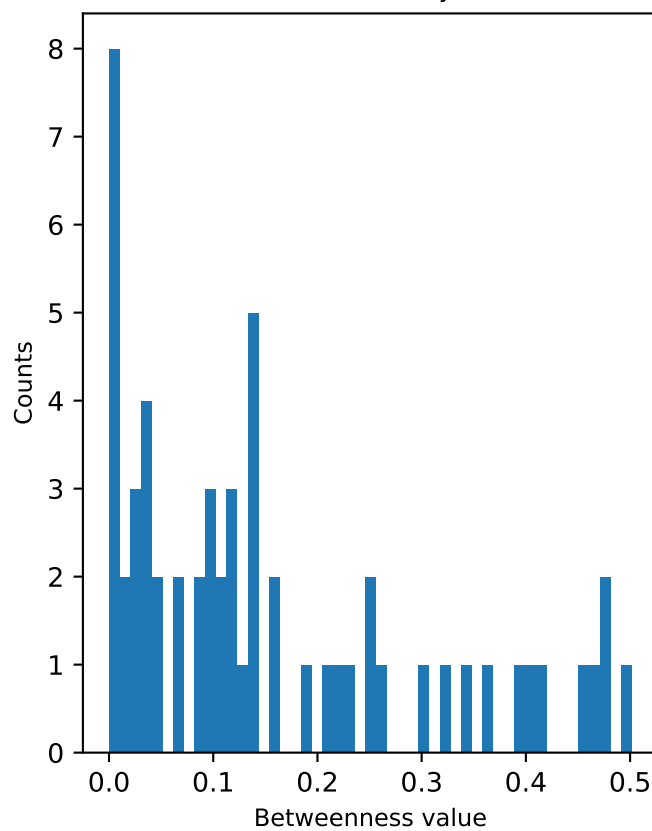
Weighted GT Parameters

Weighted average degree	3.33501
Length-weighted Wiener Index	504126.4
Max flow between periphery	4.08035
Weighted assortativity coefficient	0.332
Width-weighted average betweenness centrality	0.19443
Length-weighted average closeness centrality	0.00341
Width-weighted average eigenvector centrality	0.04176

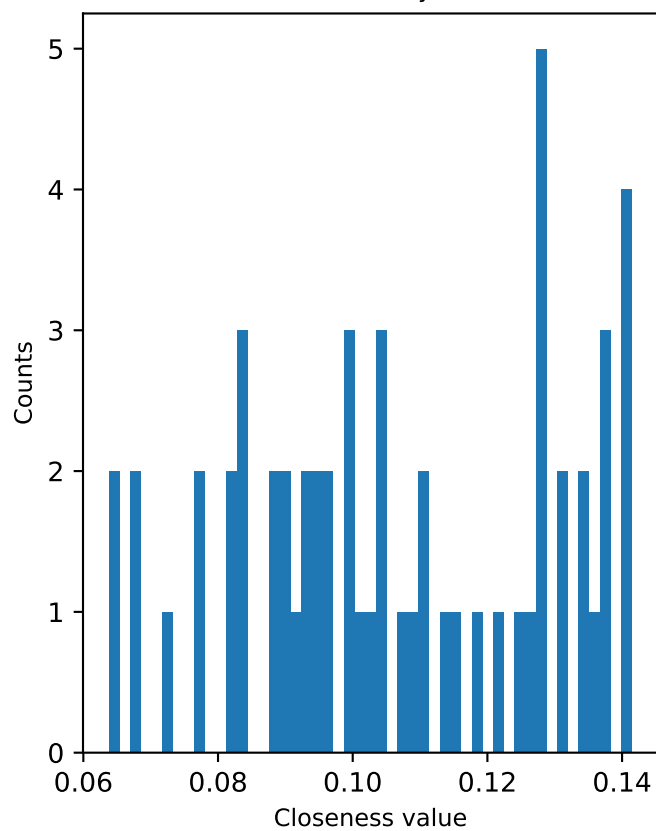
Degree Distribution: $\sigma=0.682$



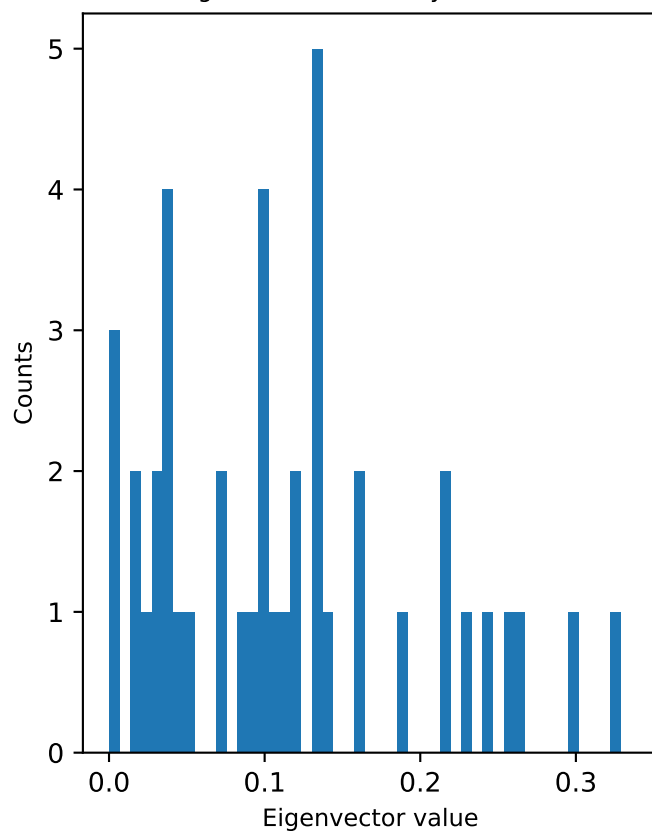
Betweenness Centrality: $\sigma=0.149$



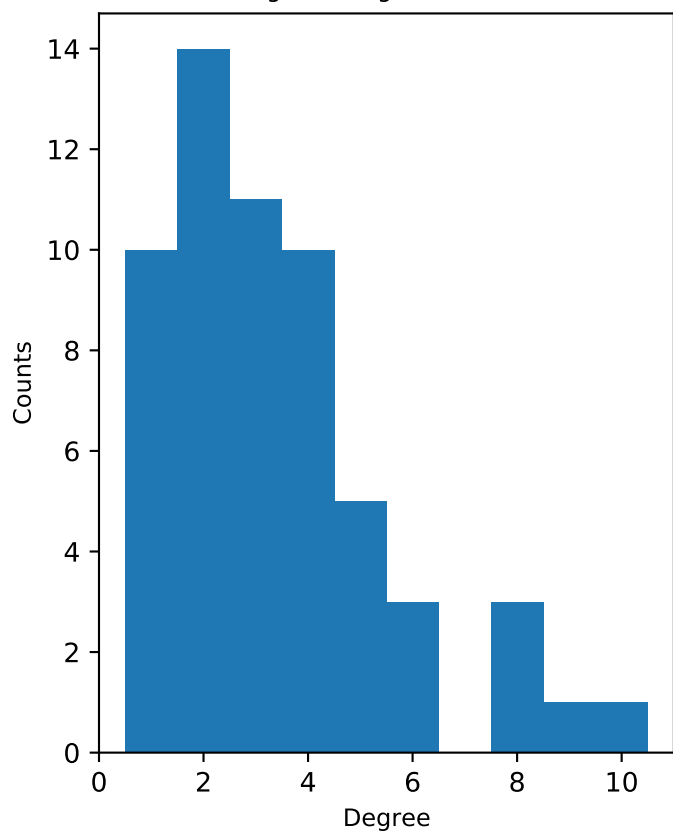
Closeness Centrality: $\sigma=0.023$



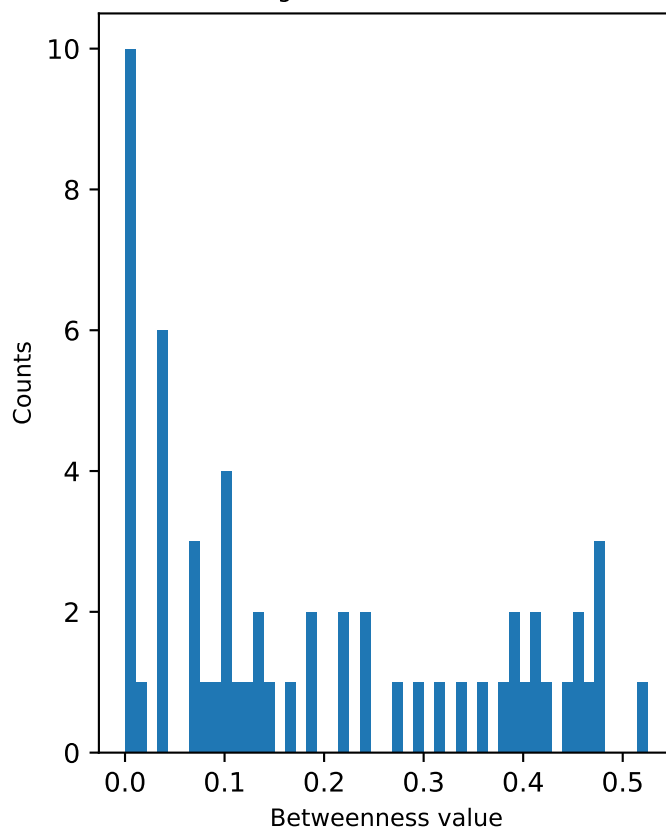
Eigenvector Centrality: $\sigma=0.101$



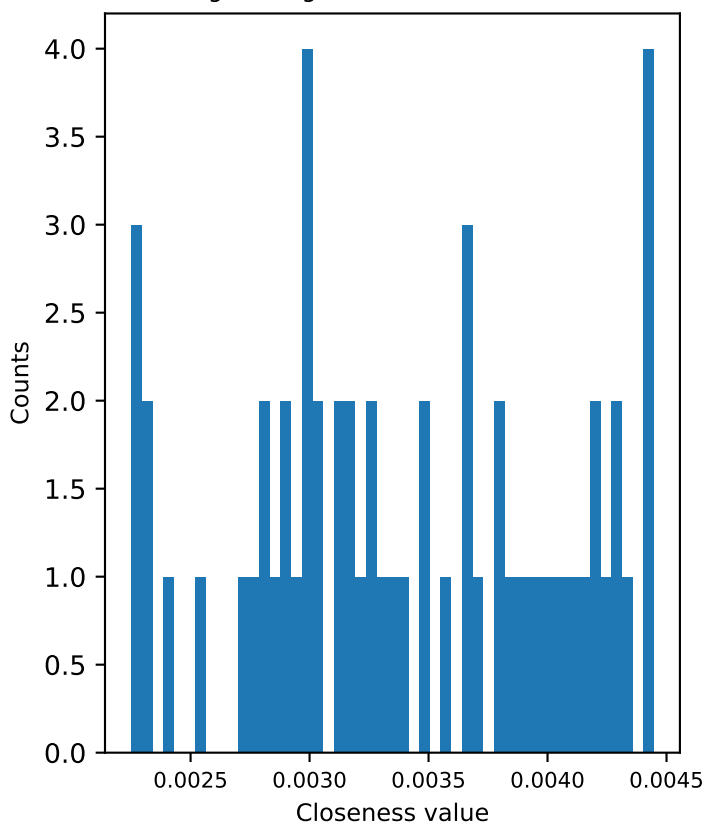
Weighted Degree: $\sigma=2.167$



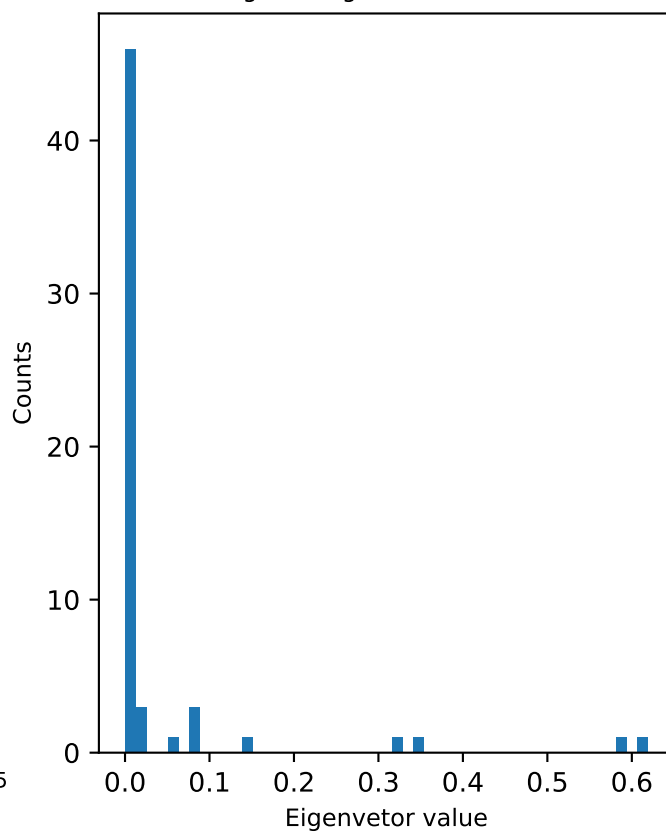
Width-Weighted Betweenness: $\sigma=0.172$



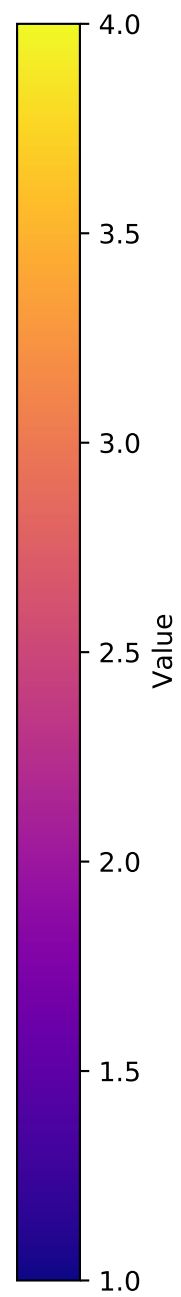
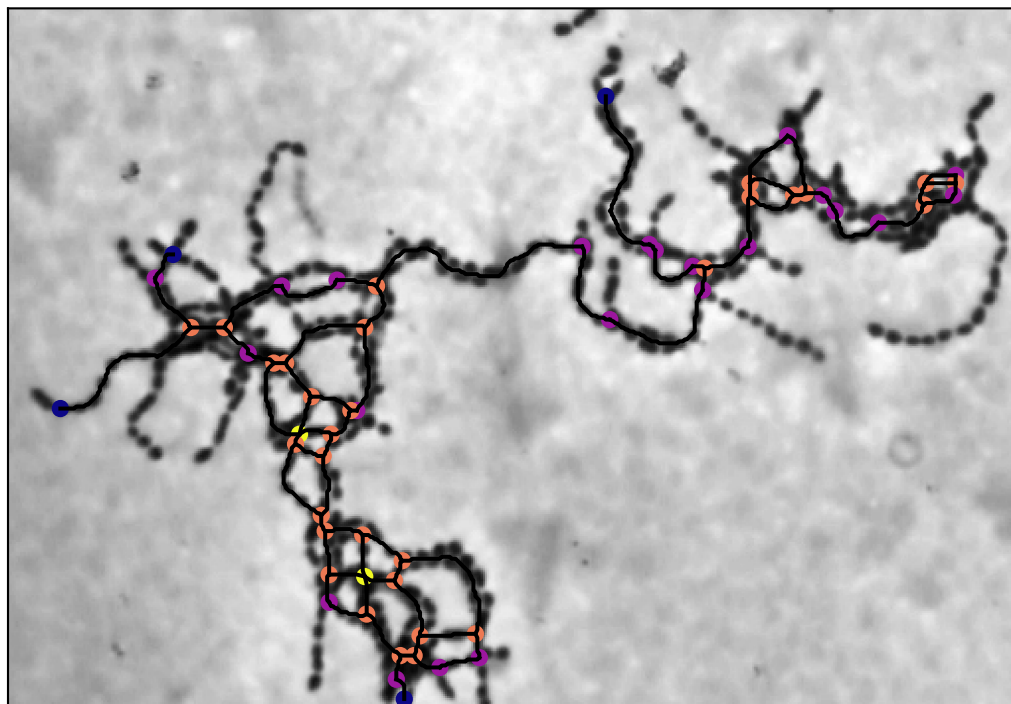
Length-Weighted Closeness: $\sigma=0.001$



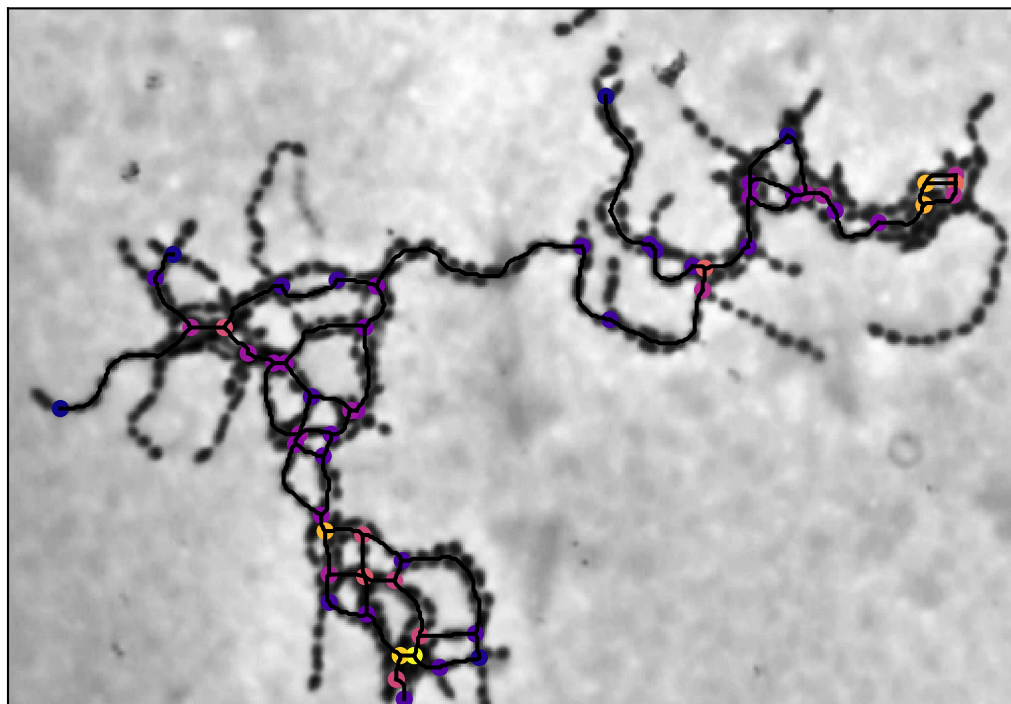
Width-Weighted Eigenvector Cent.: $\sigma=0.126$



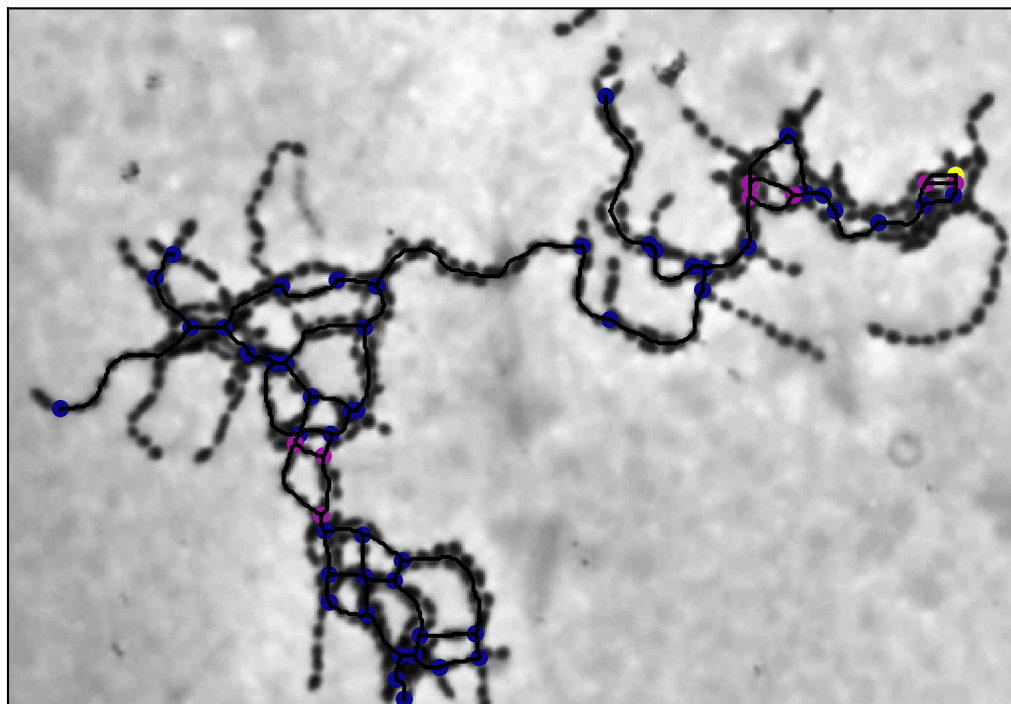
Degree Heatmap



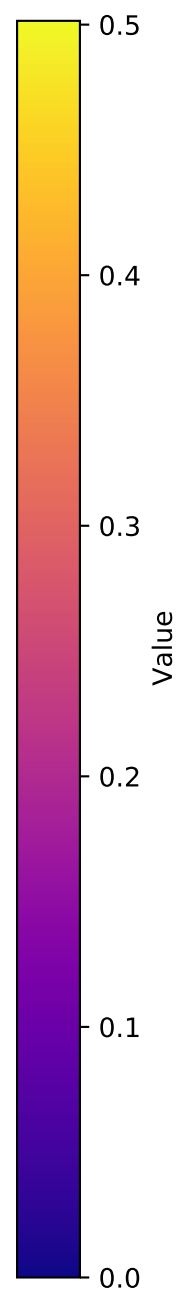
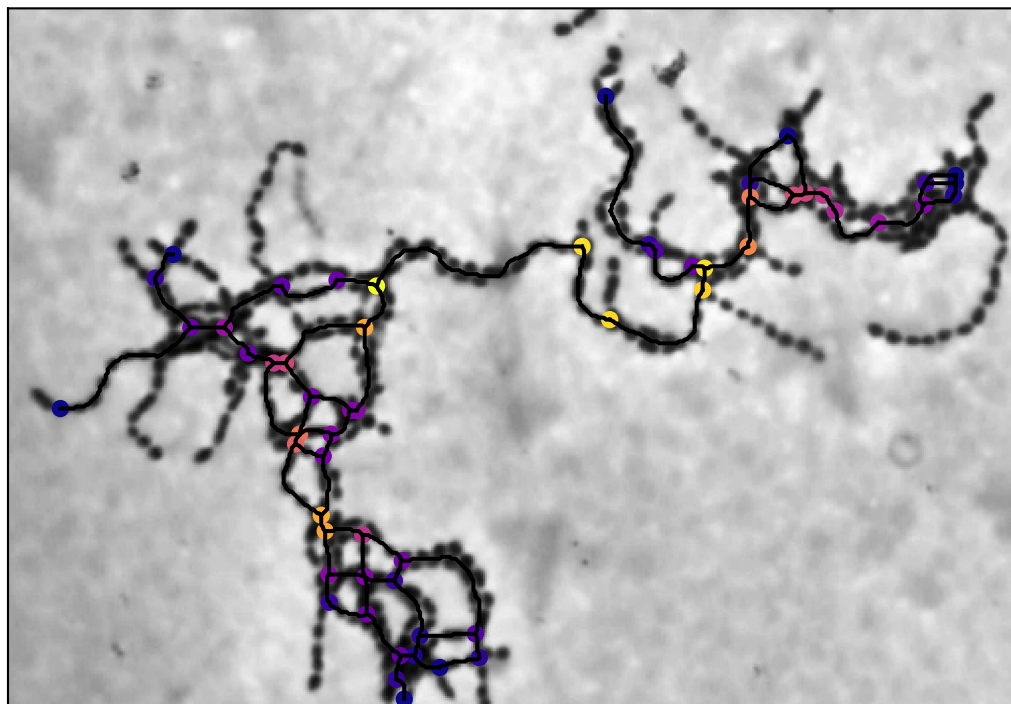
Weighted Degree Heatmap



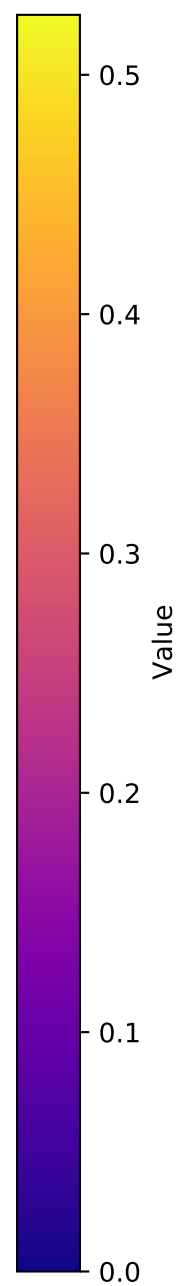
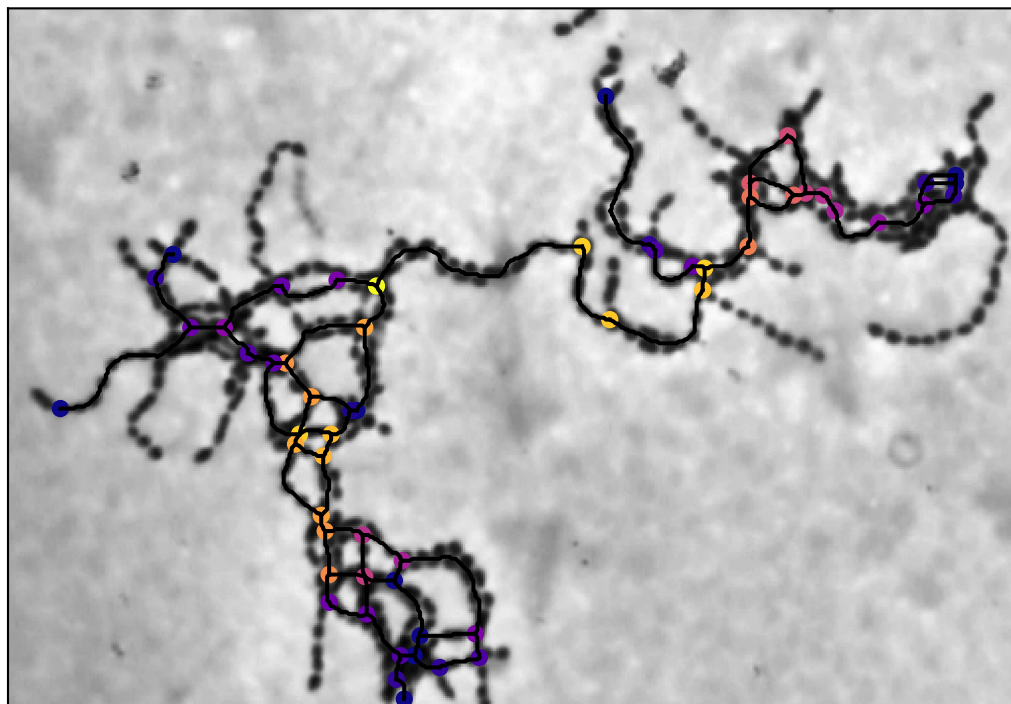
Clustering Coefficient Heatmap



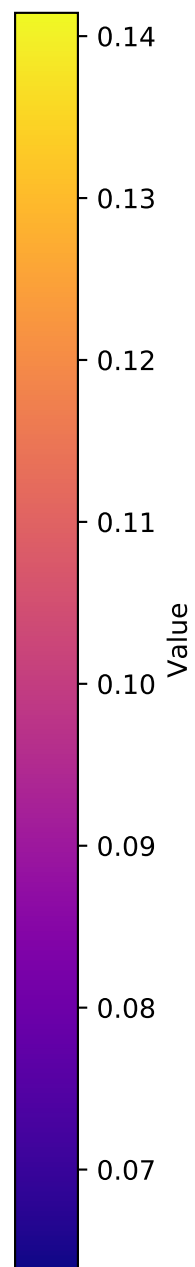
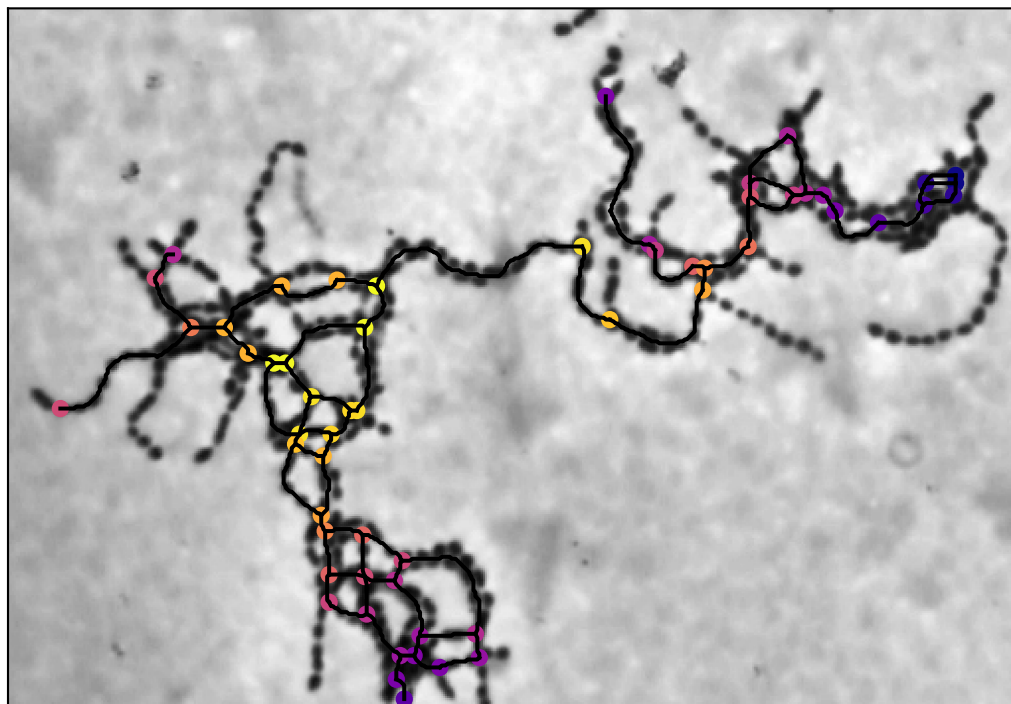
Betweenness Centrality Heatmap



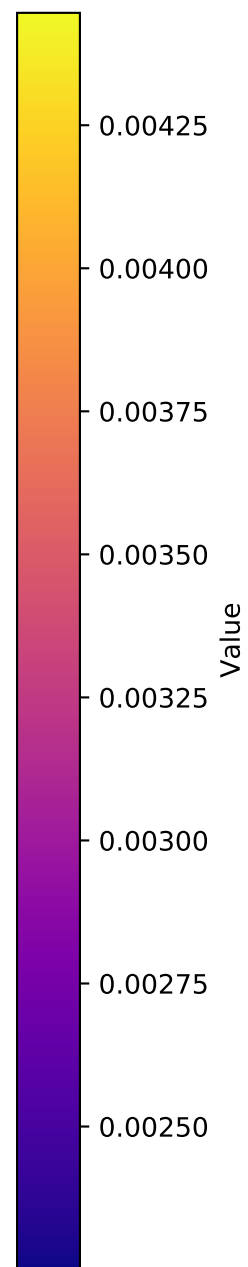
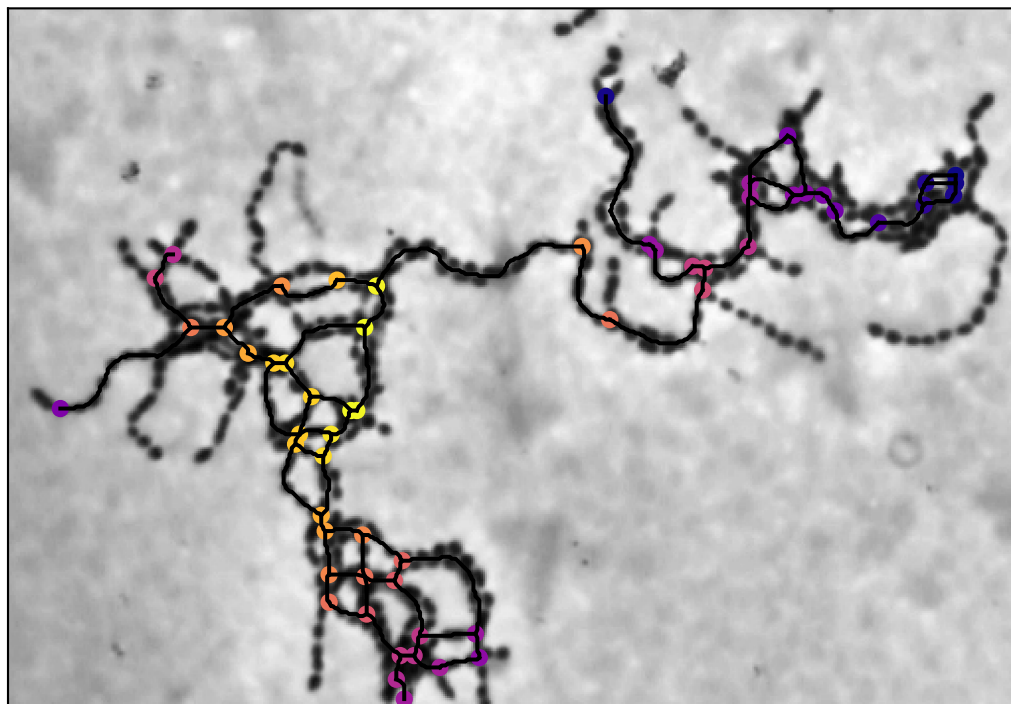
Width-Weighted Betweenness Centrality Heatmap



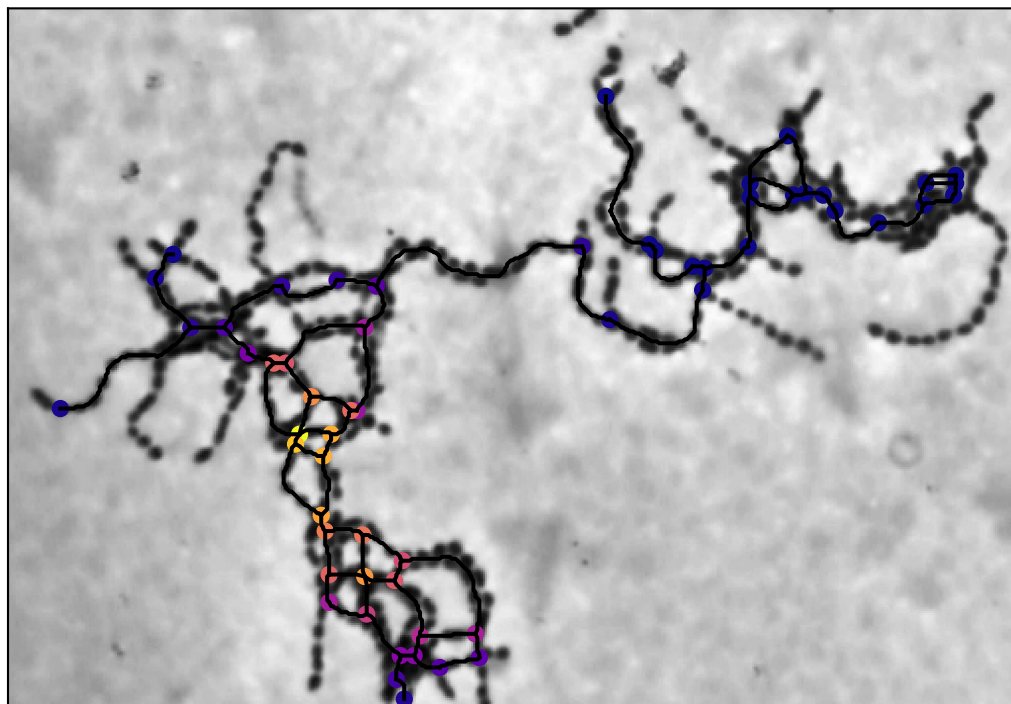
Closeness Centrality Heatmap



Length-Weighted Closeness Centrality Heatmap

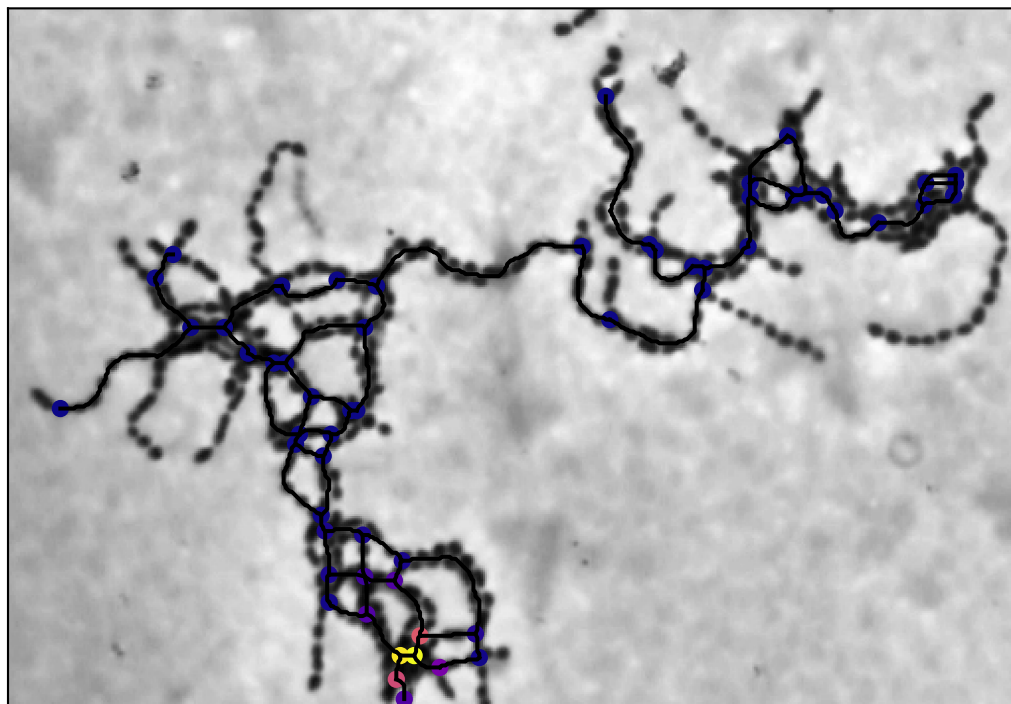


Eigenvector Centrality Heatmap



Value

Width-Weighted Eigenvector Centrality Heatmap



Value

Run Info
bacterial_1 || 2024-01-31 13:12:41
|| Global Threshold (127) || Median Filter || Gaussian Blur, 3 bit kernel || Dark Foreground || Sobel Gradient || Low-pass filter || Merge Nodes || Prune Dangling Edges || Remove Objects of Size 500 || Remove Self Loops