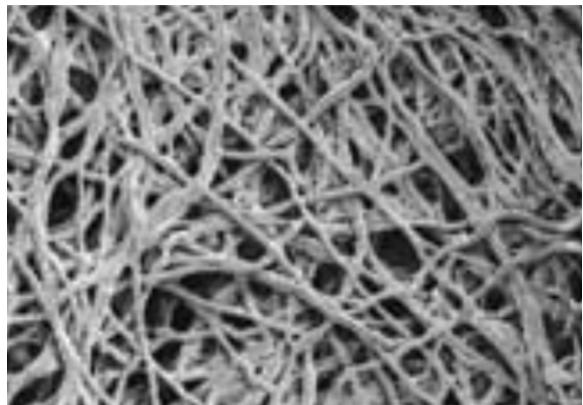
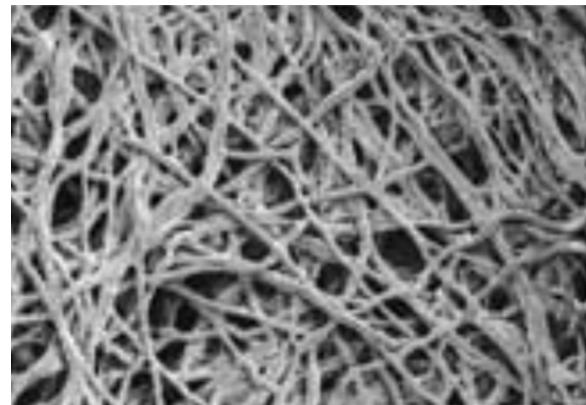


Original Image



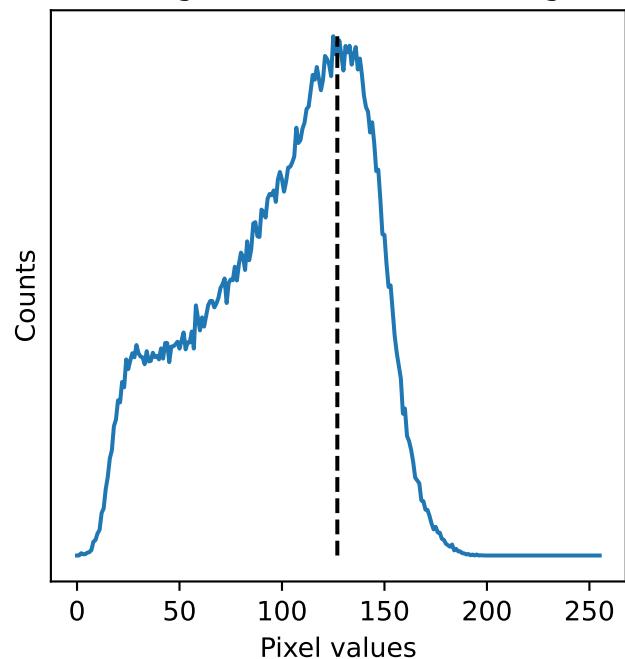
Processed Image



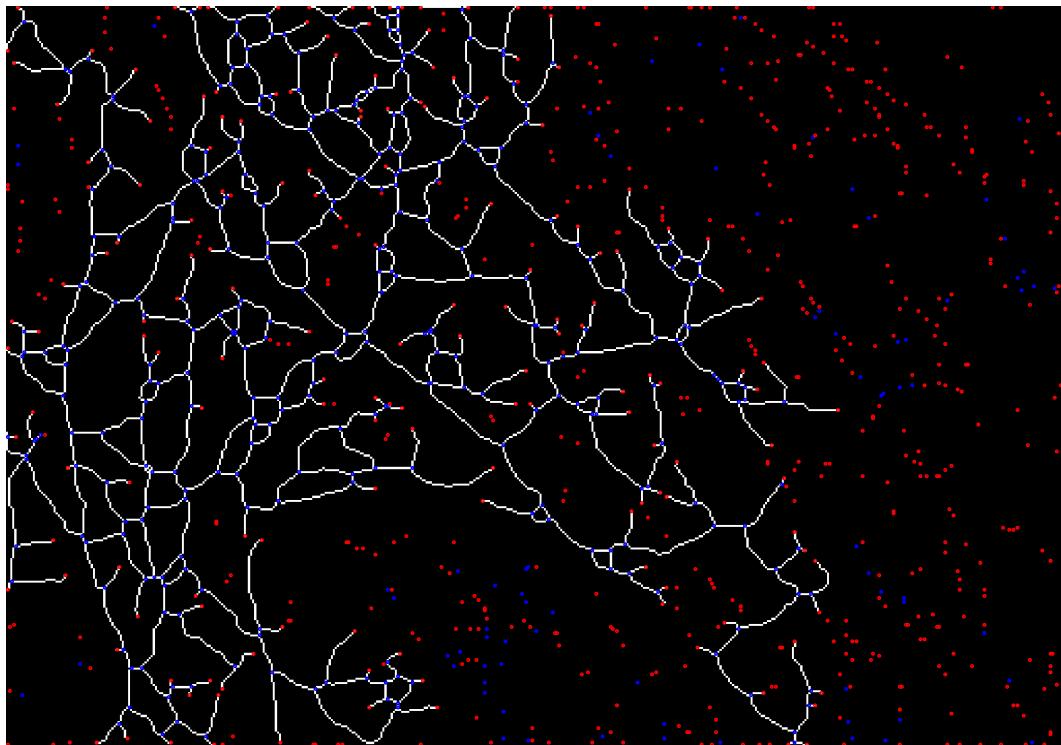
Binary Image



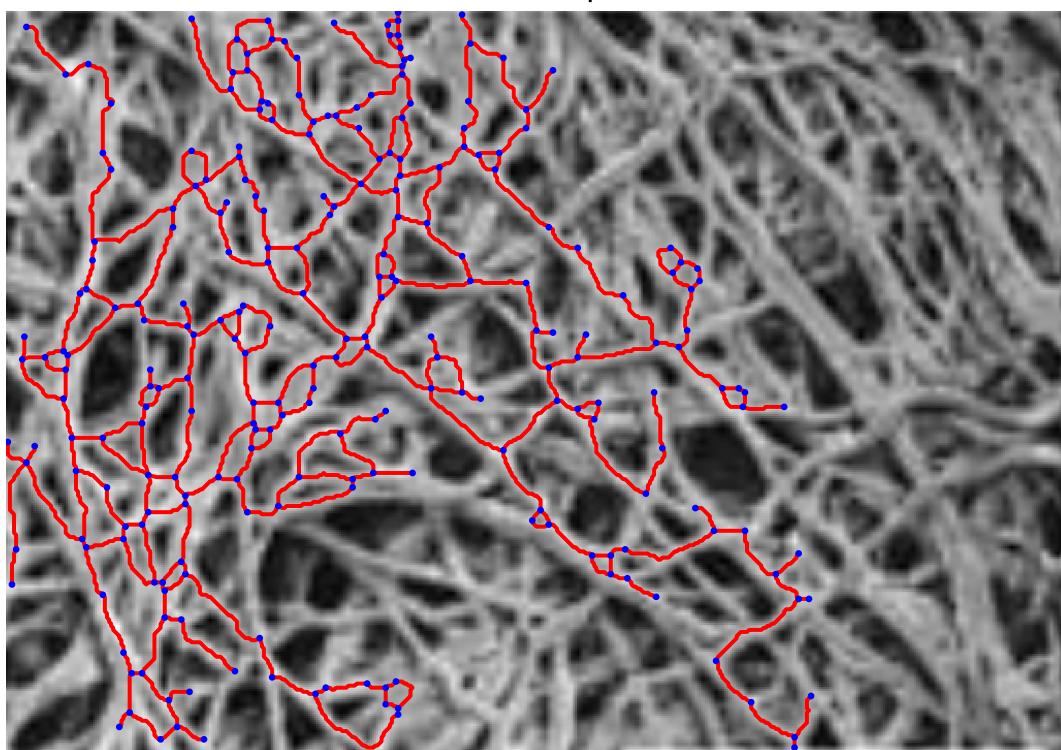
Histogram of Processed Image



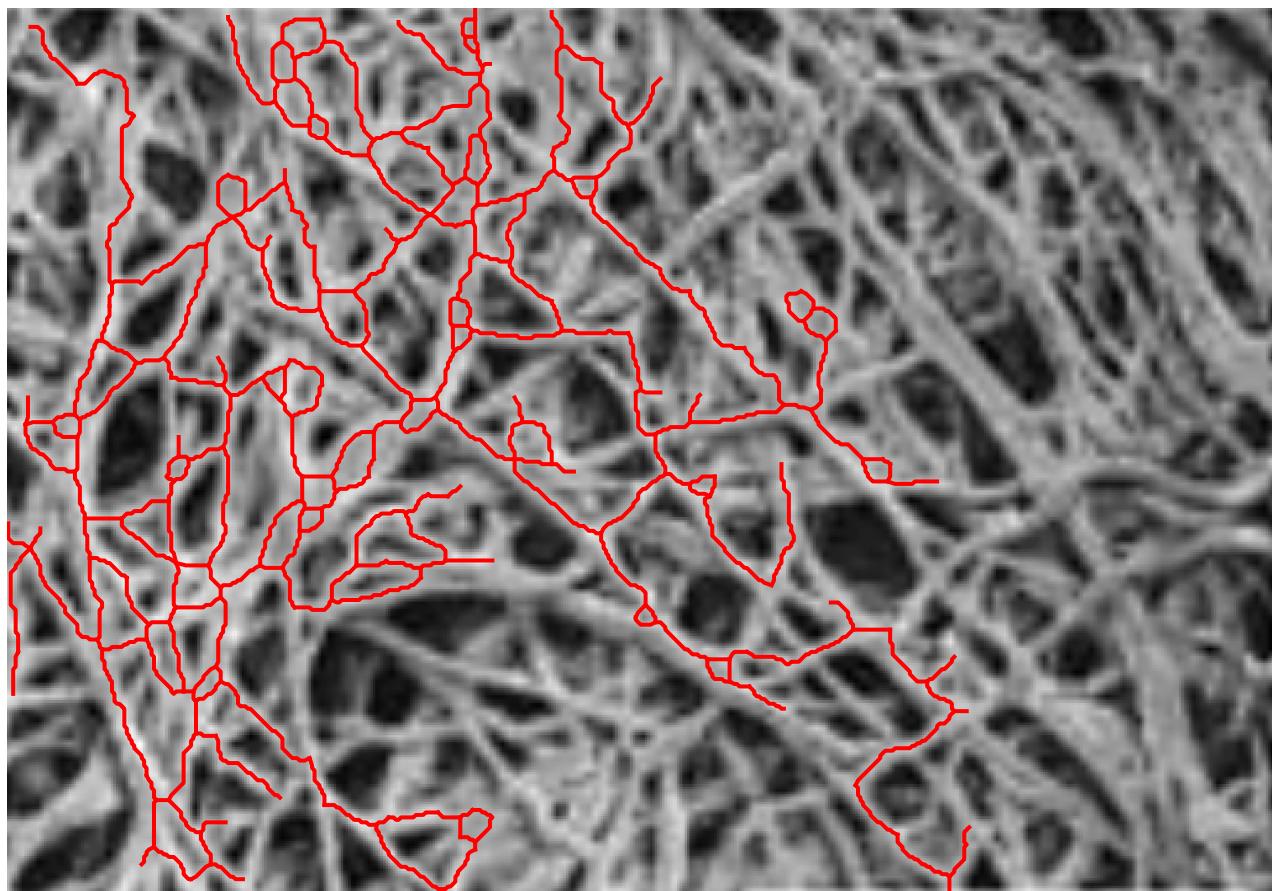
Skeletal Image



Final Graph



Graph Sub-networks



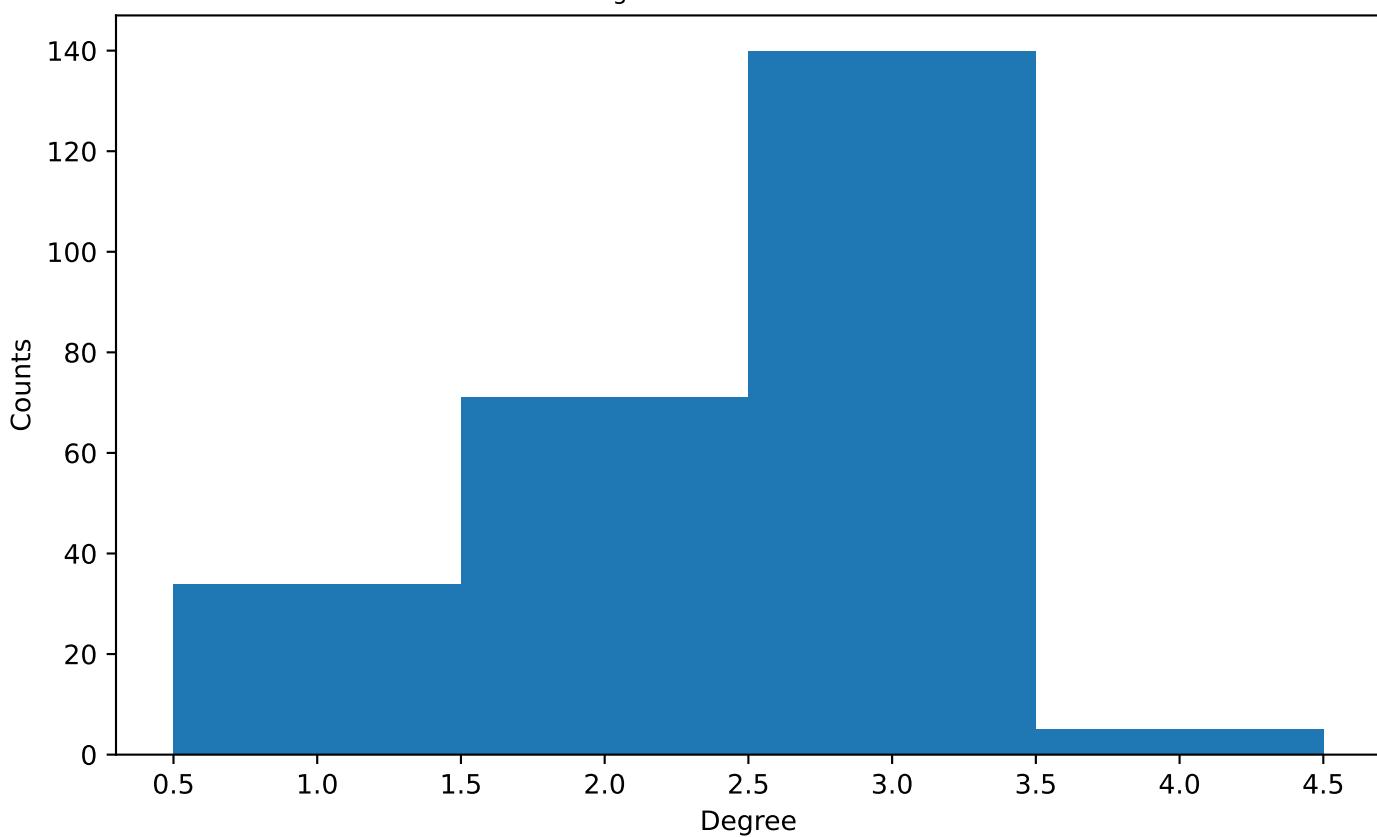
Unweighted GT parameters

Number of nodes	250
Number of edges	308
Average edge angle (degrees)	120.846
Median edge angle (degrees)	46.469
Average degree	2.464
Network diameter	32
Graph density	0.0099
Global efficiency	0.10477
Wiener Index	437539.0
Assortativity coefficient	-0.01923
Average clustering coefficient	0.06467
Average betweenness centrality	0.05265
Average eigenvector centrality	0.02897
Average closeness centrality	0.0737
Average Ohms centrality	0.10036
Ohms centrality (avg. area)	125.22466462956052 m ²
Ohms centrality (avg. length)	46.952551176462045 m
Ohms centrality (avg. width)	9.34010764642502 m
Ohms centrality (g shape coeff.)	1
Ohms centrality (conductivity)	1.0 S/m
Average percolation centrality	0.05265
Largest-Entire graph ratio	100.0%
Graph Conductance (max)	0.0010407679513992527
Graph Conductance (min)	2.7079948216494933e-07

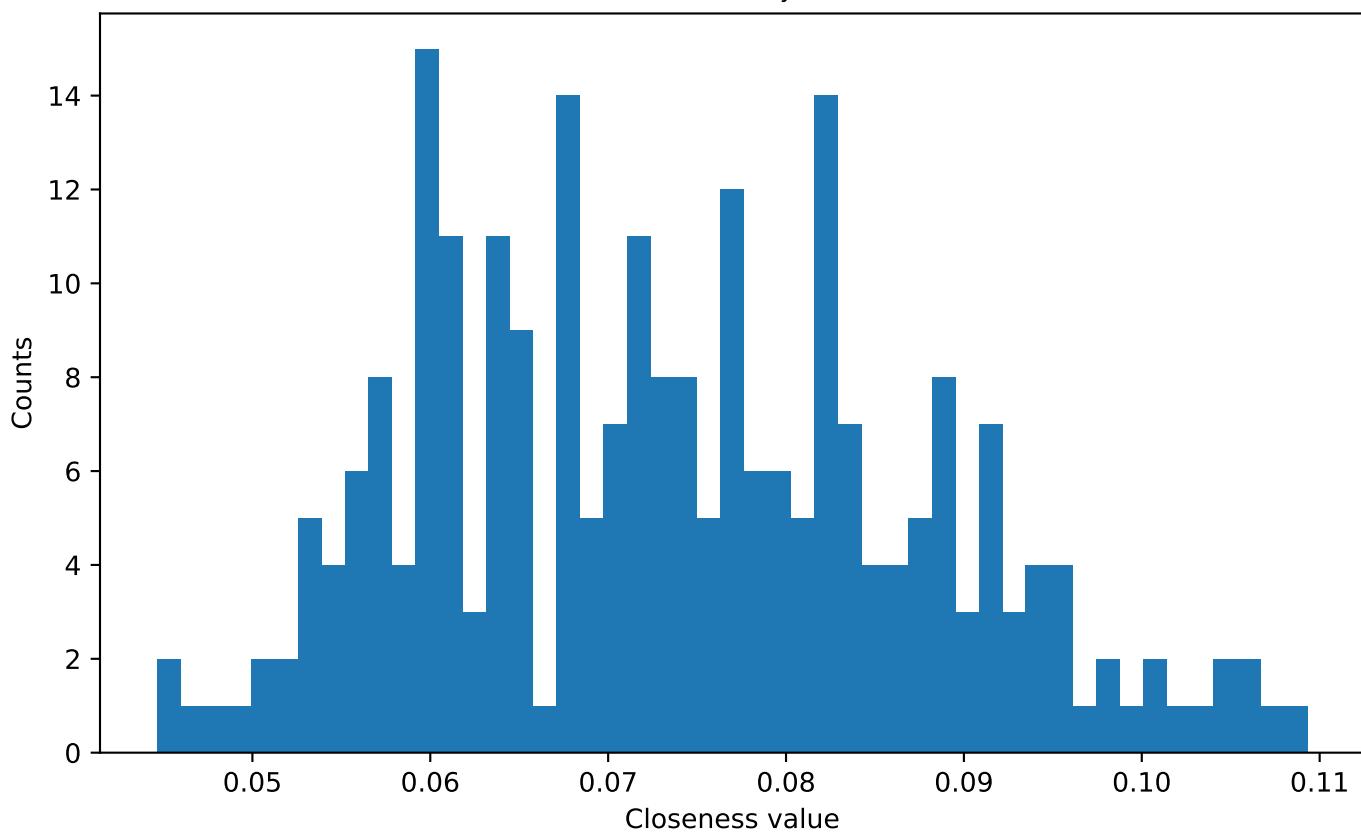
Weighted GT parameters

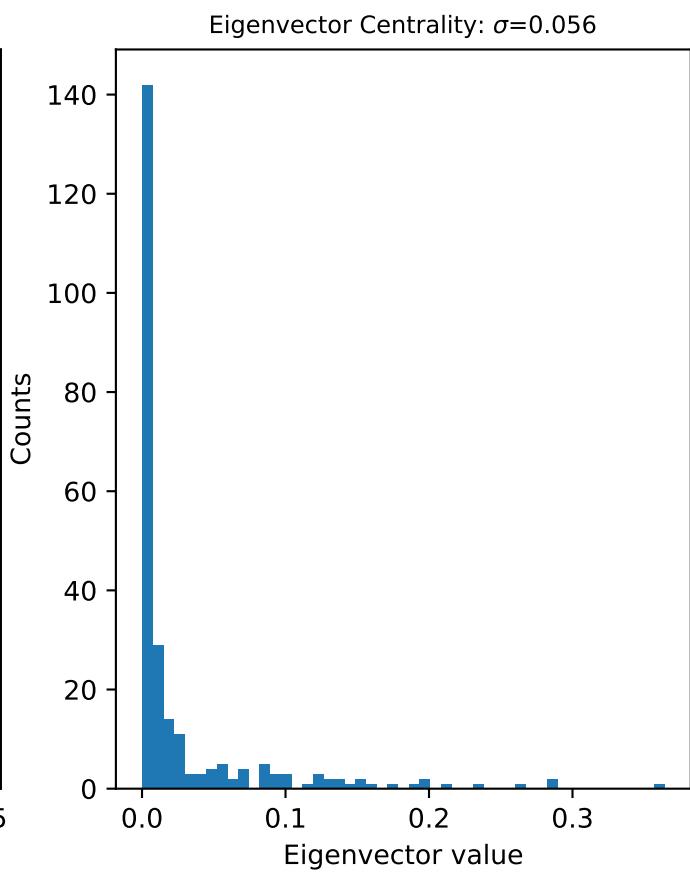
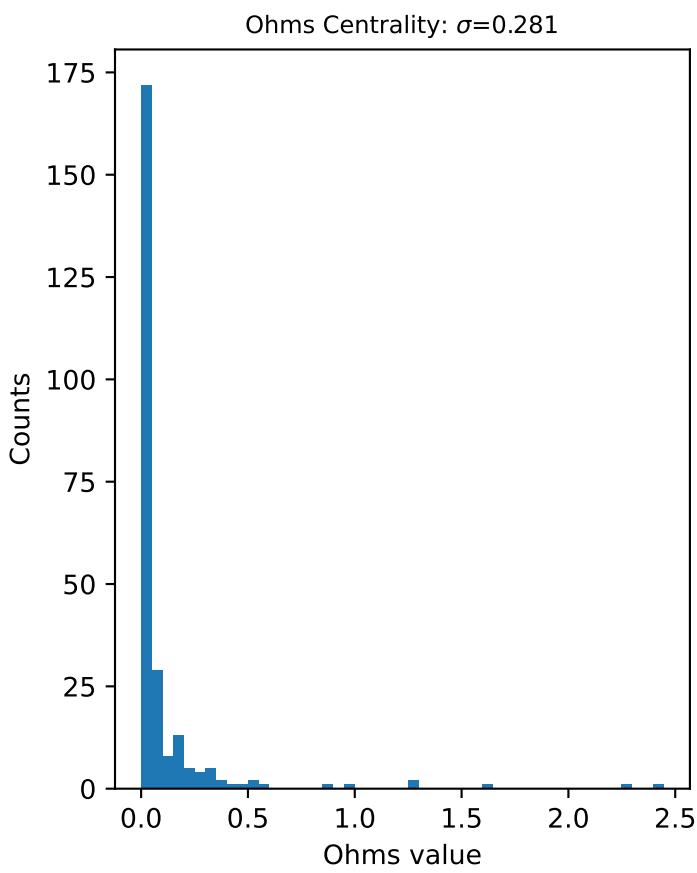
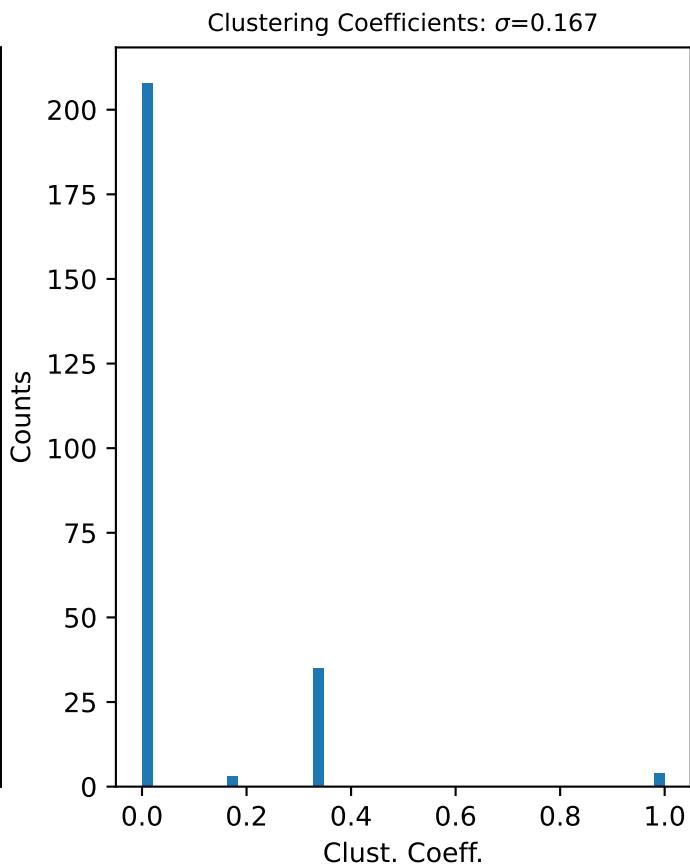
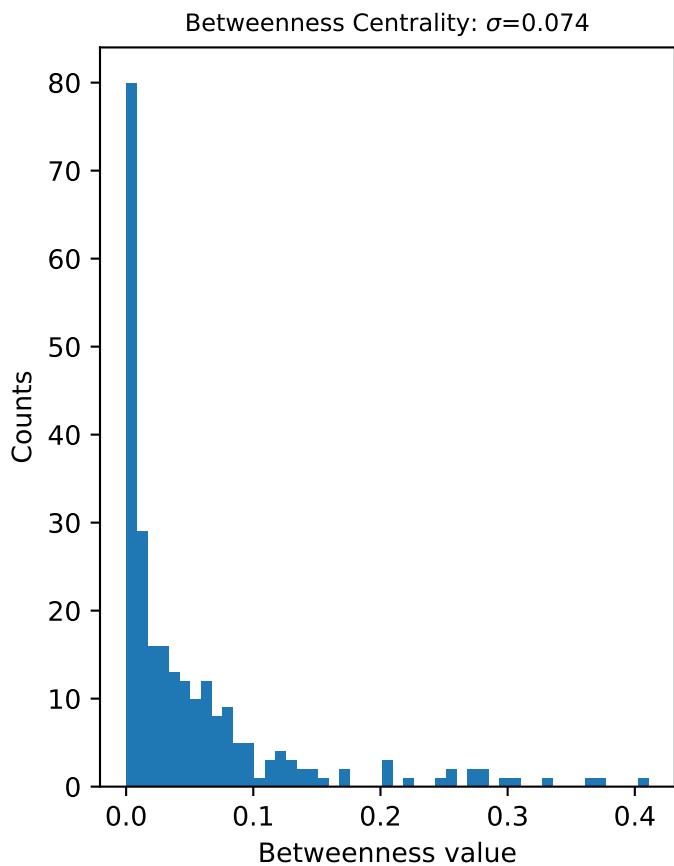
Angle-weighted average degree	168.10971
Length-weighted Wiener Index	8491281.1
Width-weighted assortativity coefficient	0.56699
Angle-weighted average betweenness centrality	0.0655
Length-weighted average closeness centrality	0.00384
Angle-weighted average eigenvector centrality	0.00683
Angle-weighted average percolation centrality	0.0655
Graph Conductance (max)	0.0010407679513992527
Graph Conductance (min)	2.7079948216494933e-07

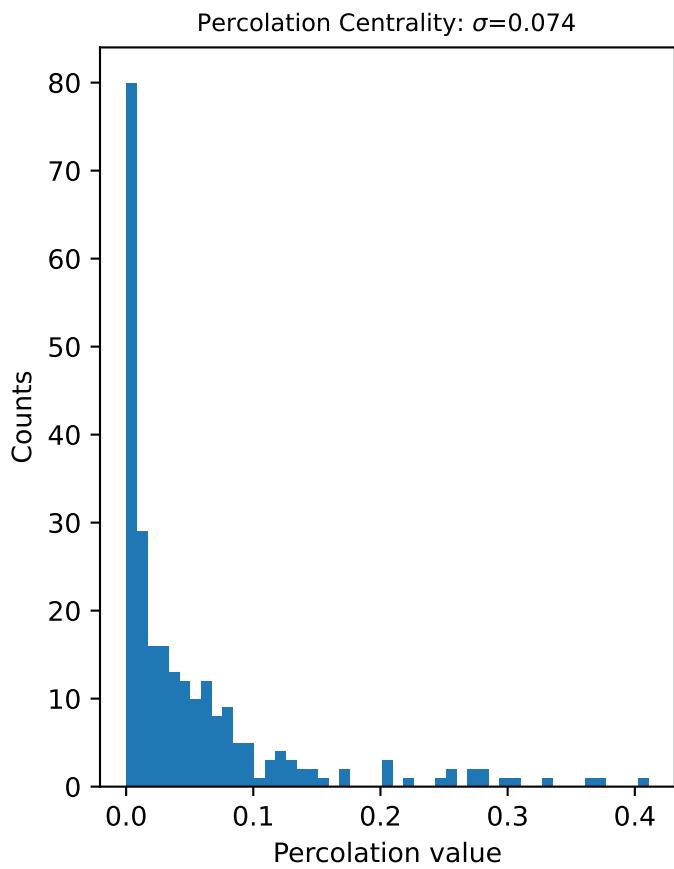
Degree Distribution: $\sigma=0.75$

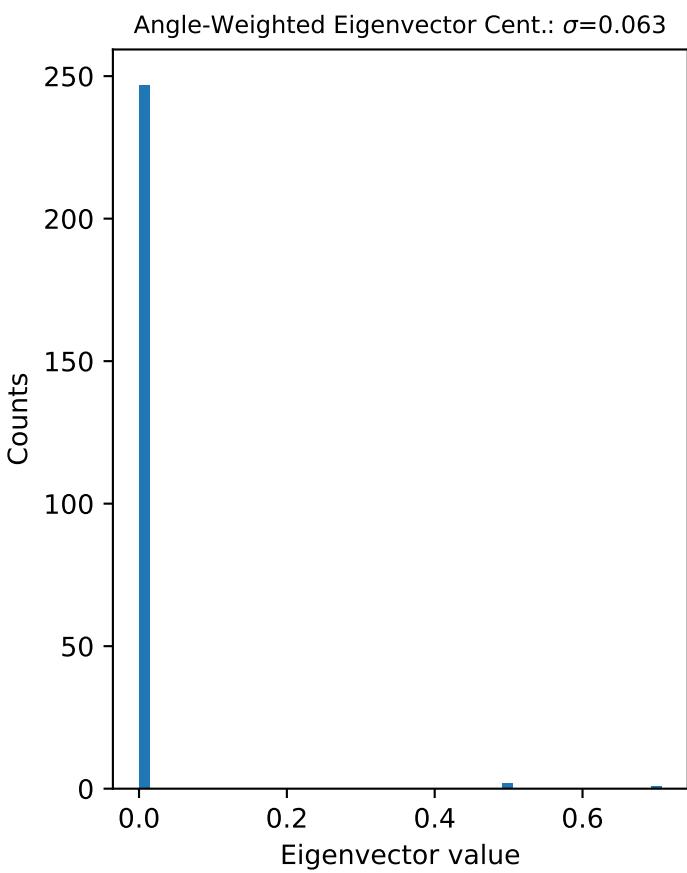
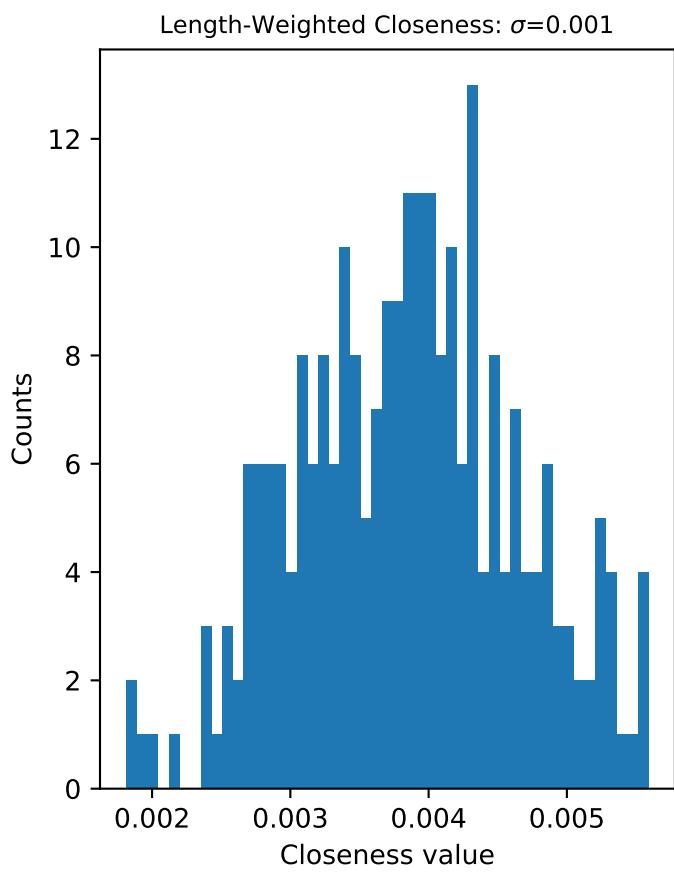
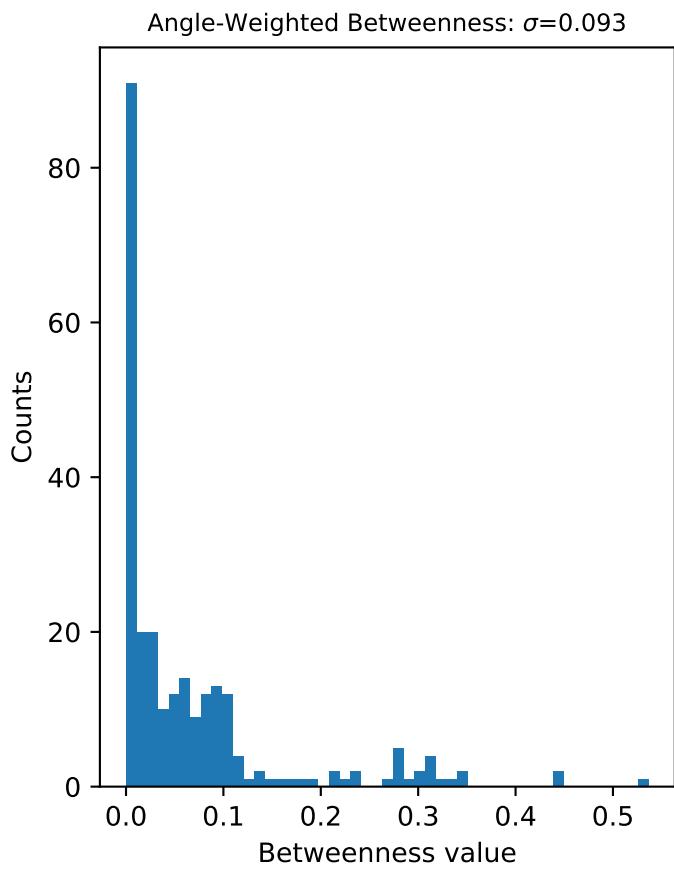
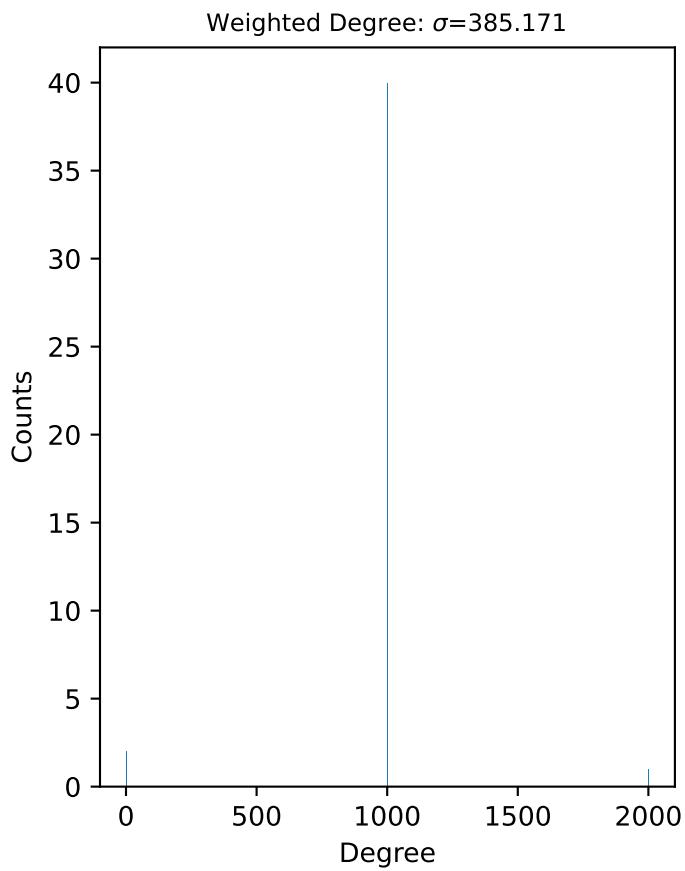


Closeness Centrality: $\sigma=0.014$

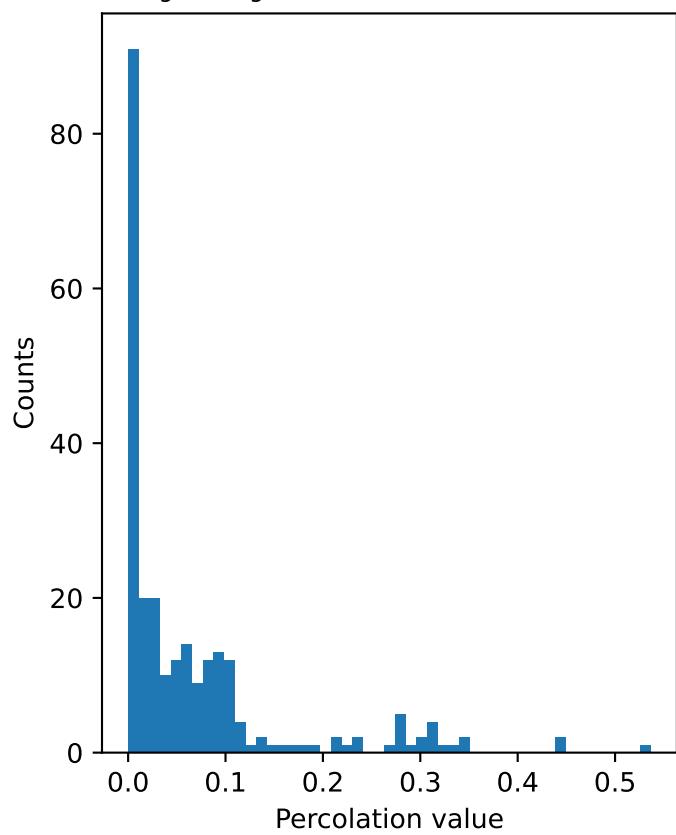




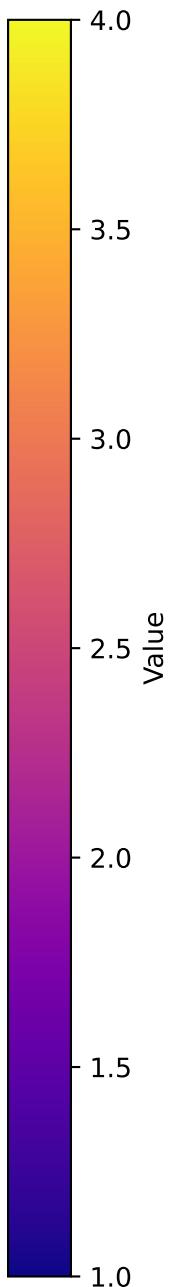
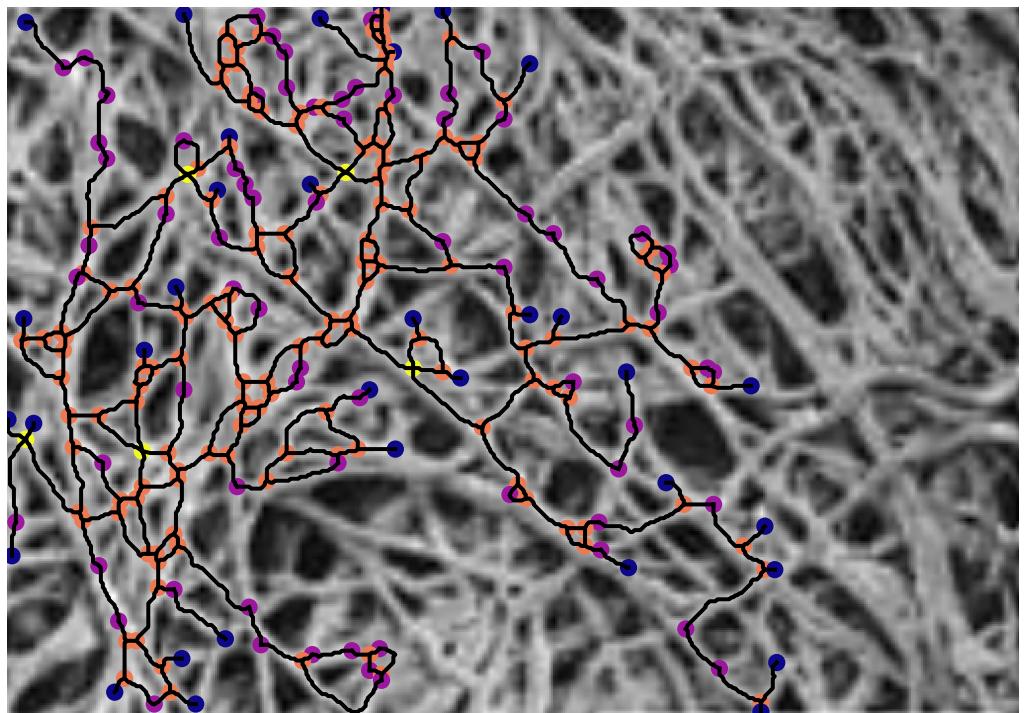




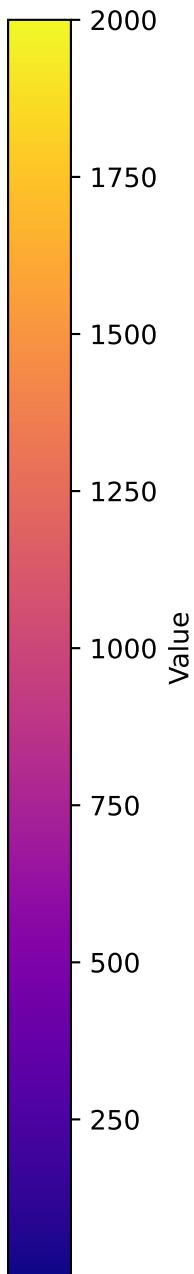
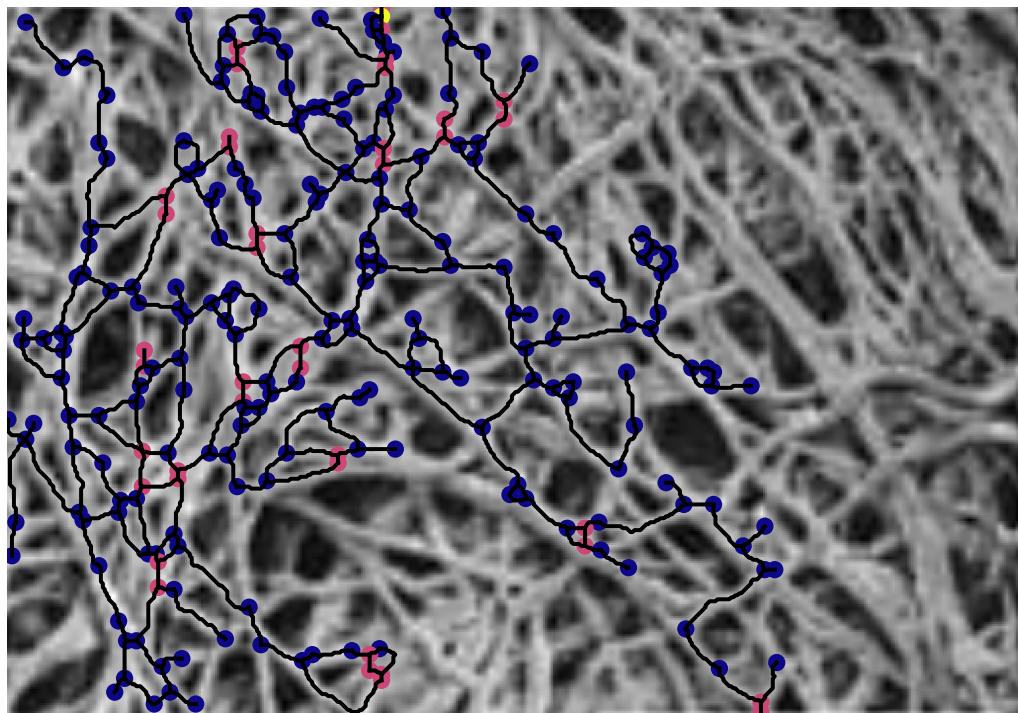
Angle-Weighted Percolation Cent.: $\sigma=0.093$



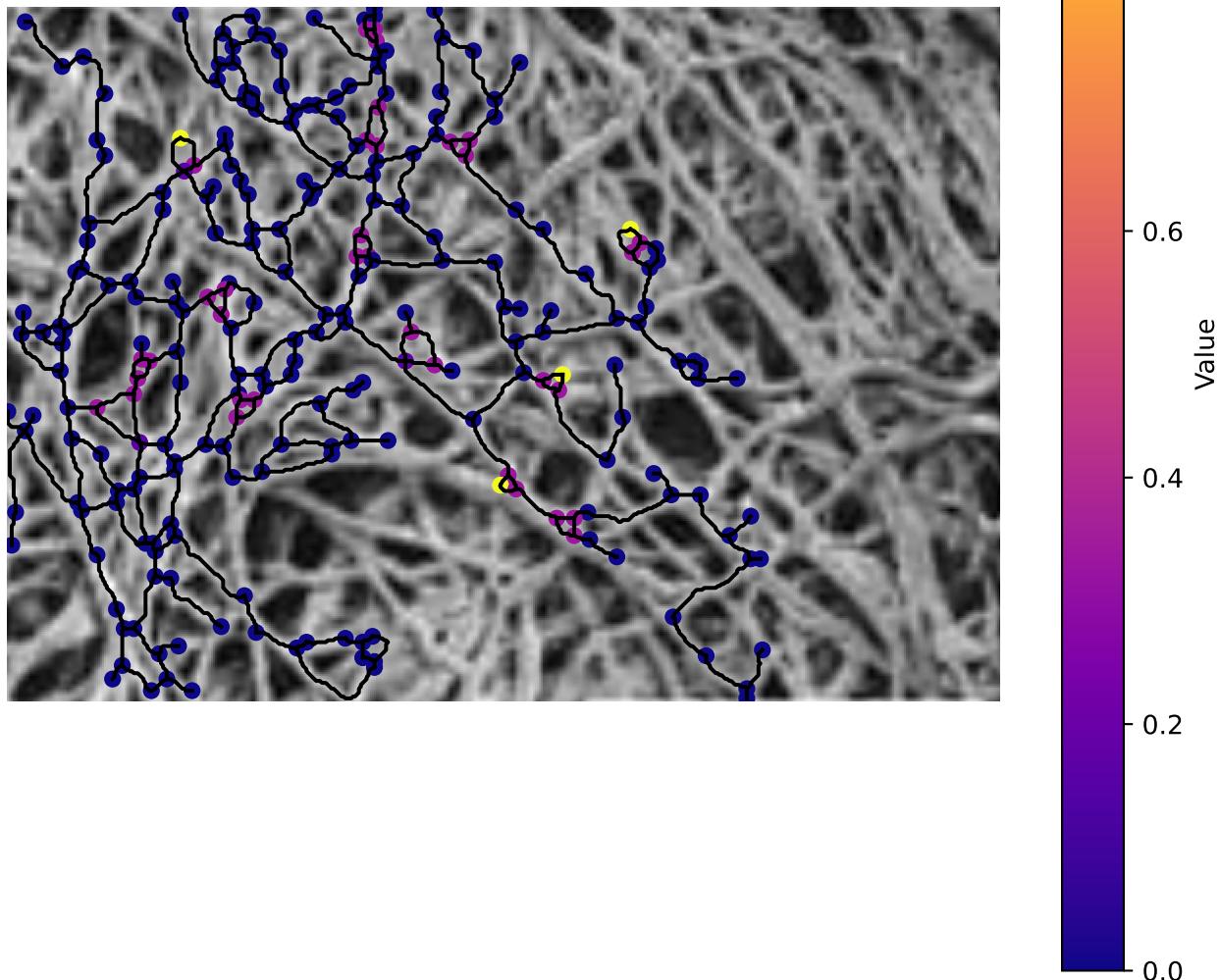
Degree Heatmap



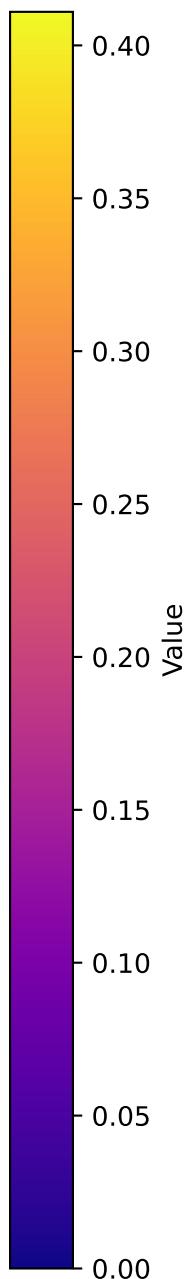
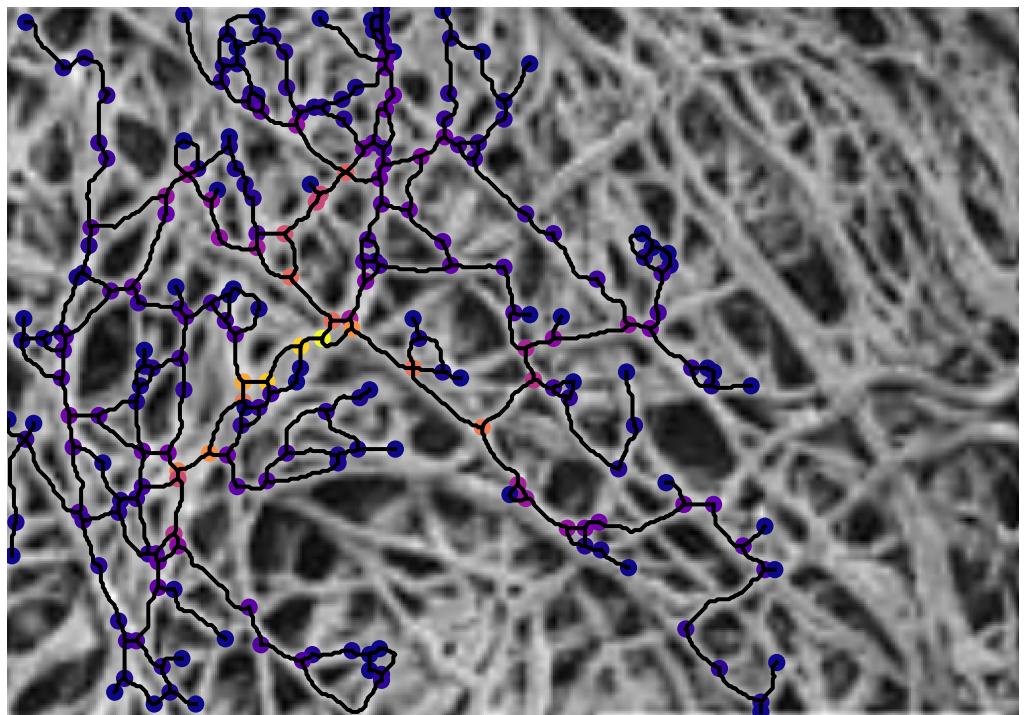
Weighted Degree Heatmap



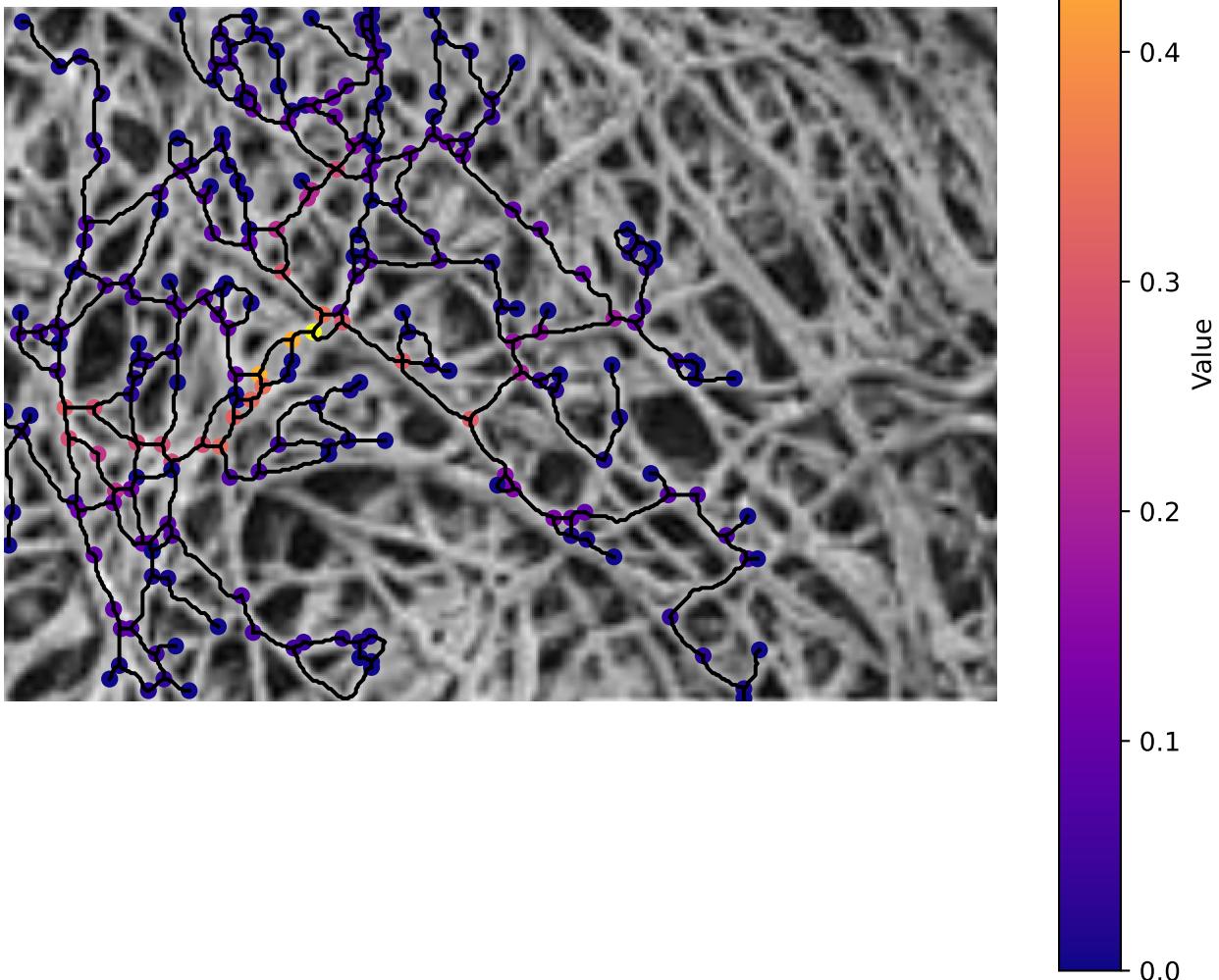
Clustering Coefficient Heatmap



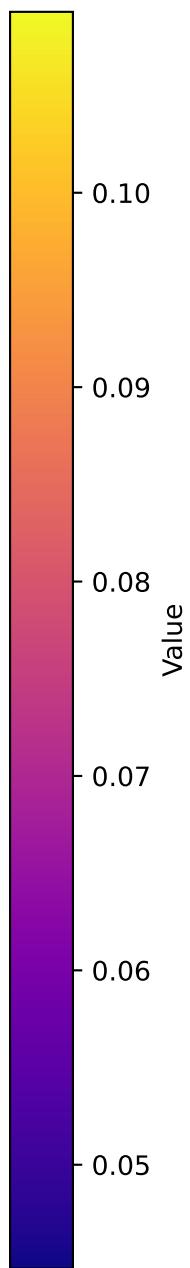
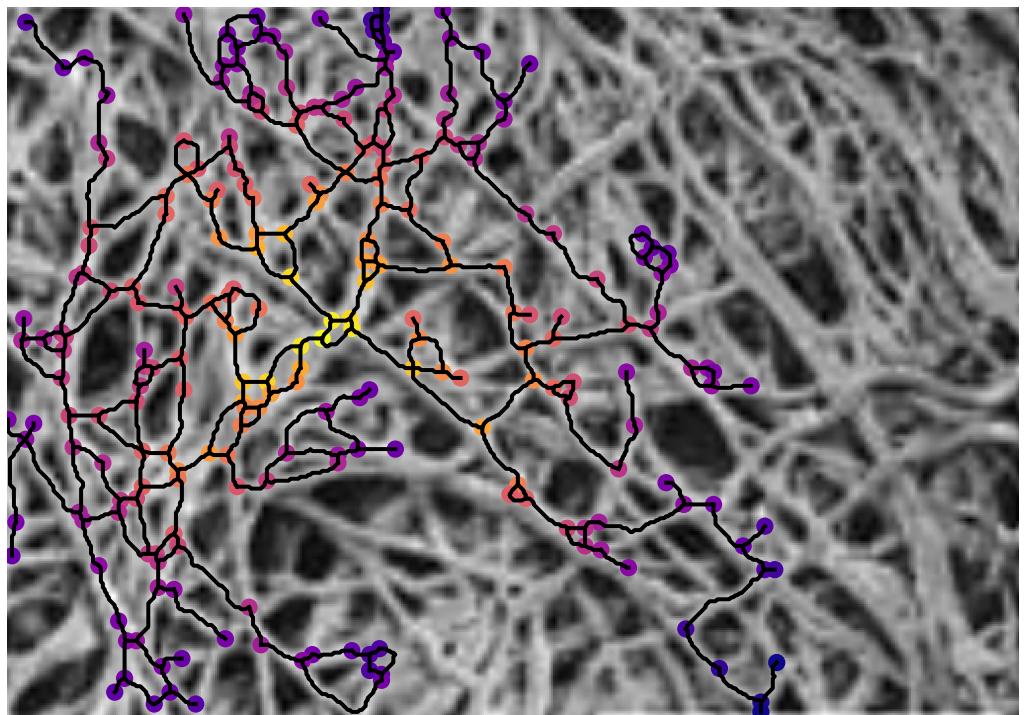
Betweenness Centrality Heatmap



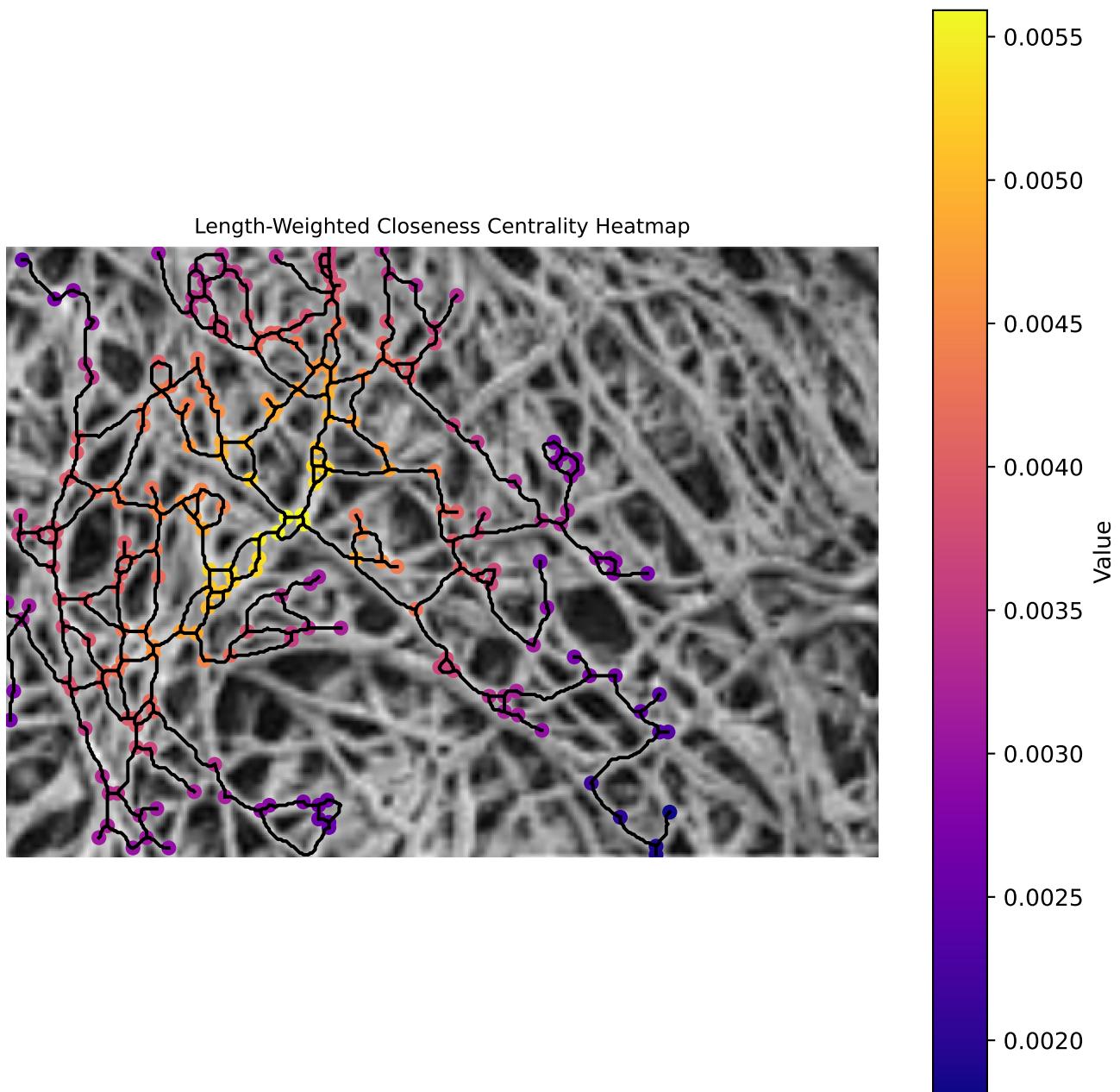
Angle-Weighted Betweenness Centrality Heatmap



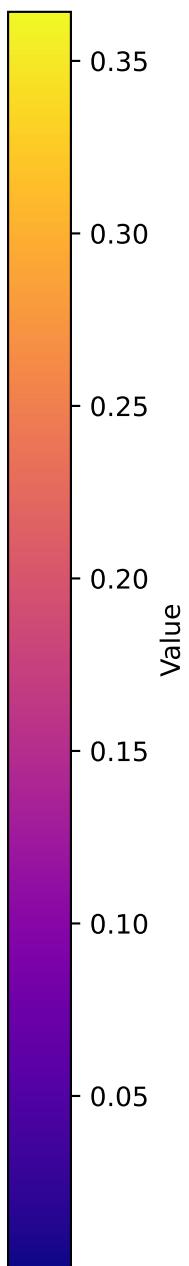
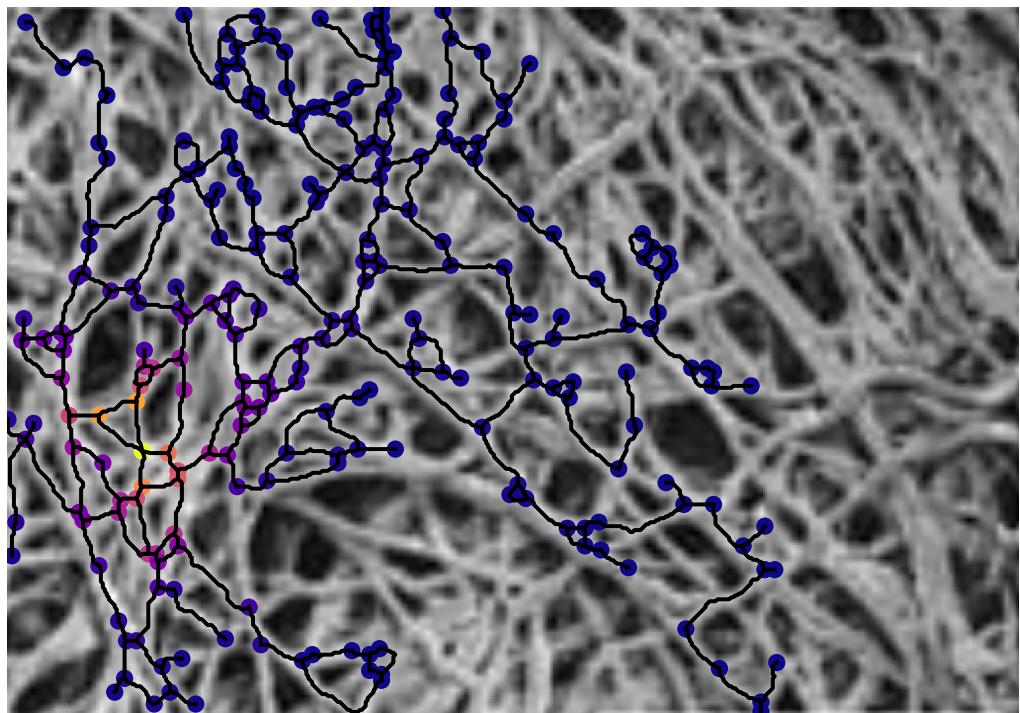
Closeness Centrality Heatmap



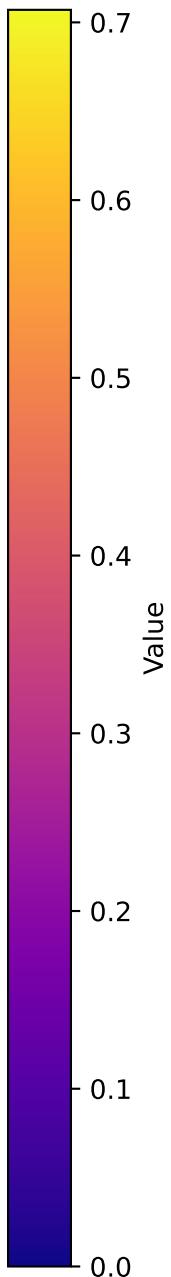
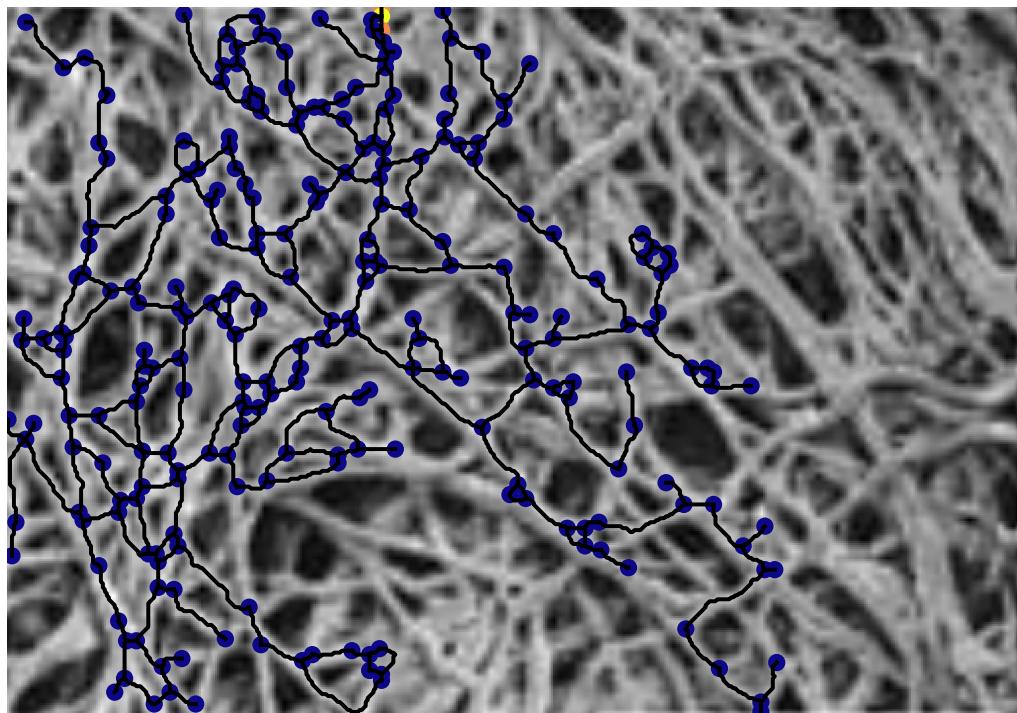
Length-Weighted Closeness Centrality Heatmap



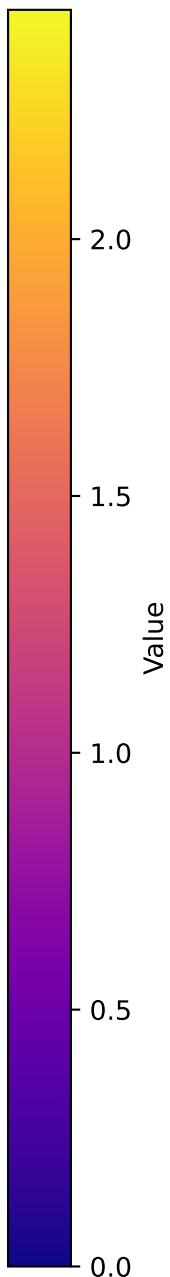
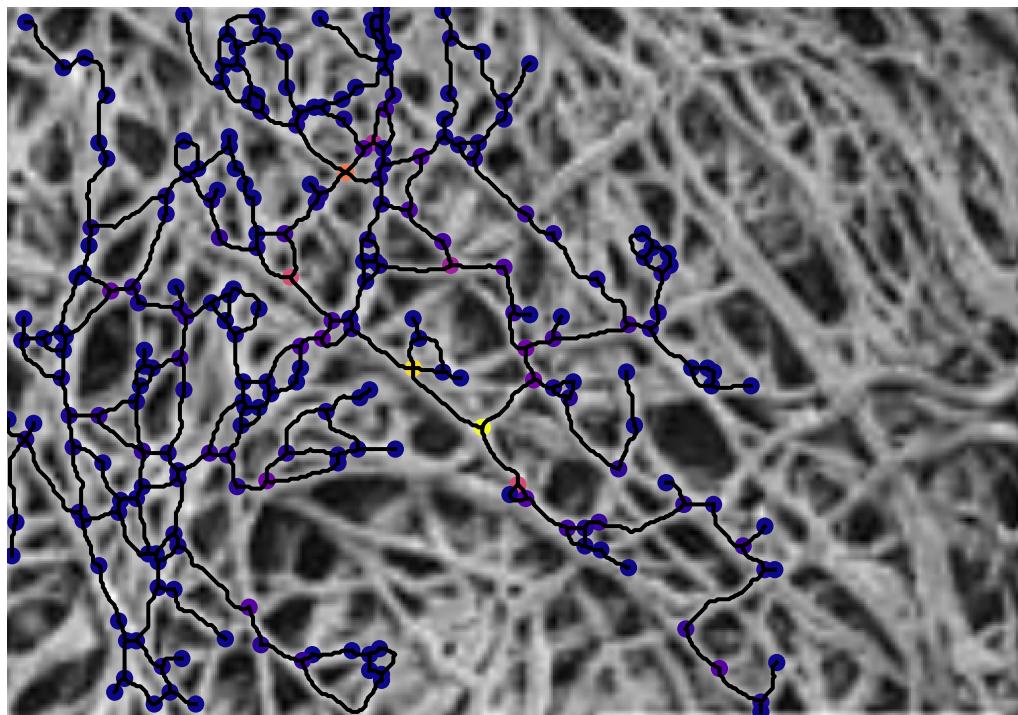
Eigenvector Centrality Heatmap



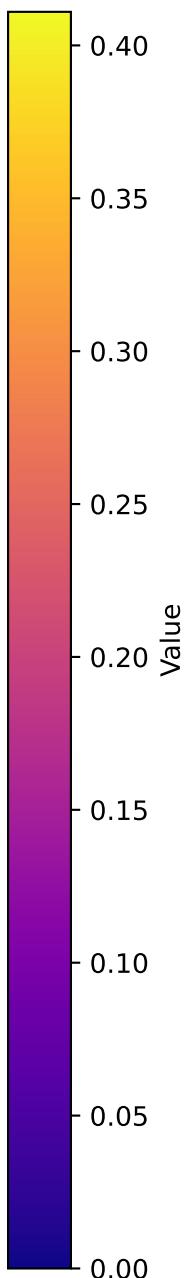
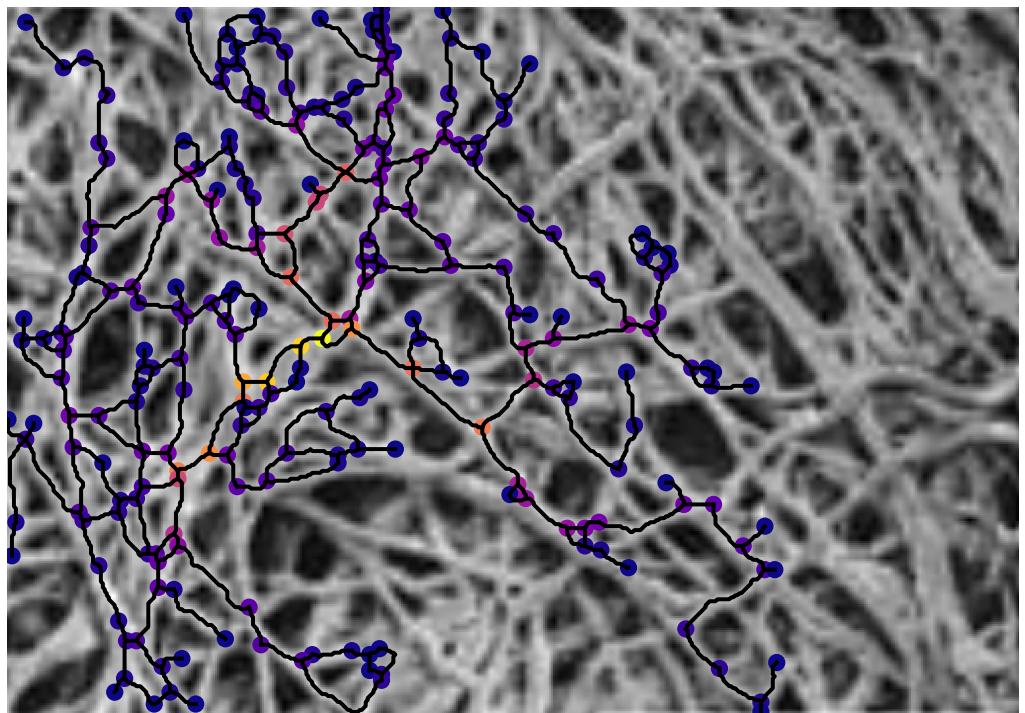
Angle-Weighted Eigenvector Centrality Heatmap



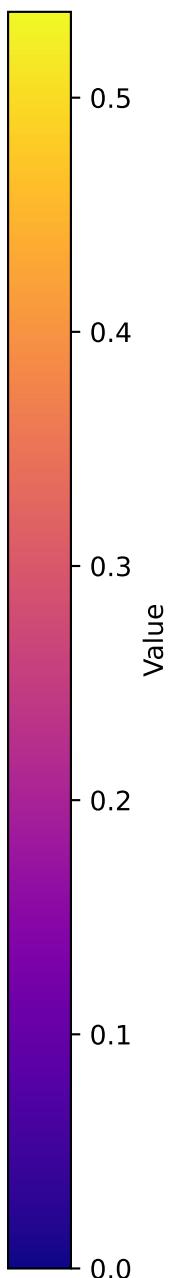
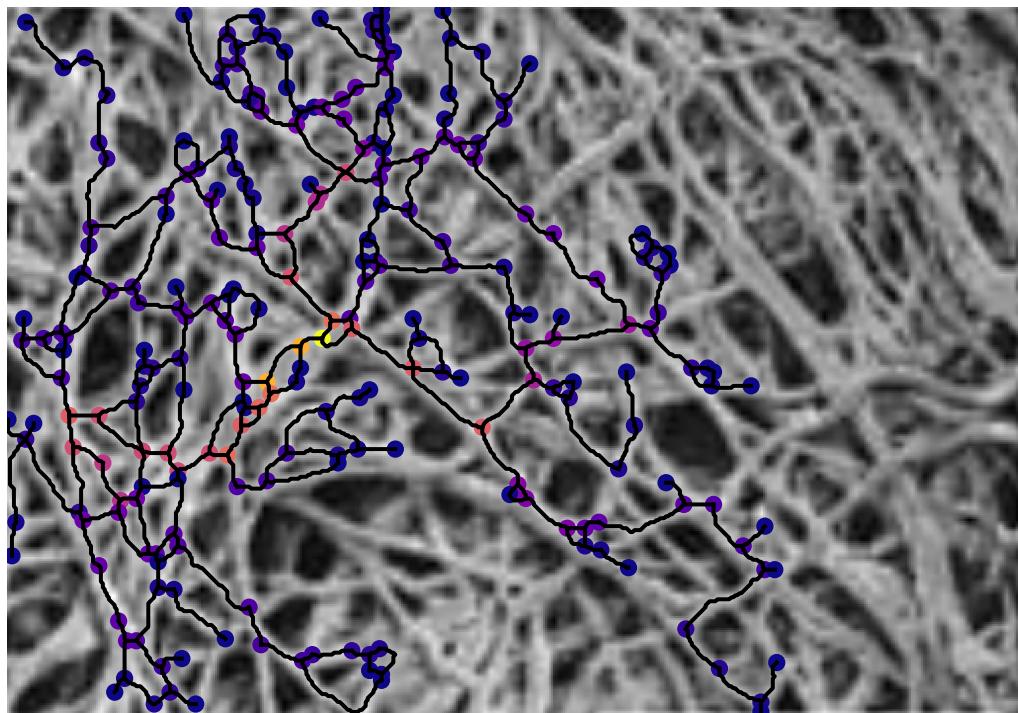
Ohms Centrality Heatmap



Percolation Centrality Heatmap



Angle-Weighted Percolation Centrality Heatmap



Run Info

InVitroBioFilm.png
2025-02-07 16:23:06

Image Filter Configurations
Global Threshold (127)

Microscopy Parameters
Scalebar Value = 0.0 nm || Scalebar Pixel Count = 1
Resistivity = 1.0Ωm

Graph Extraction Configurations
Weight Type: Angle || Merge Nodes || Prune Dangling Edges
Remove Objects of Size = 500 || Remove Self Loops