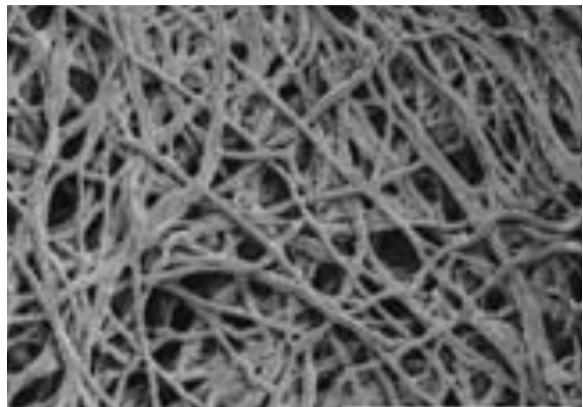
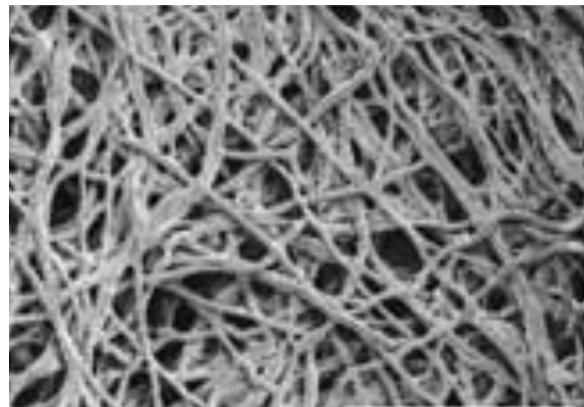


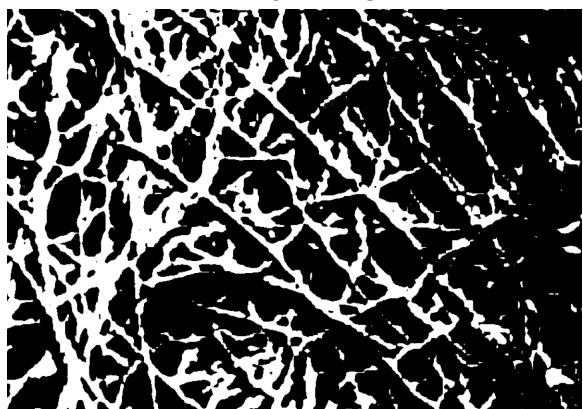
Original Image



Processed Image



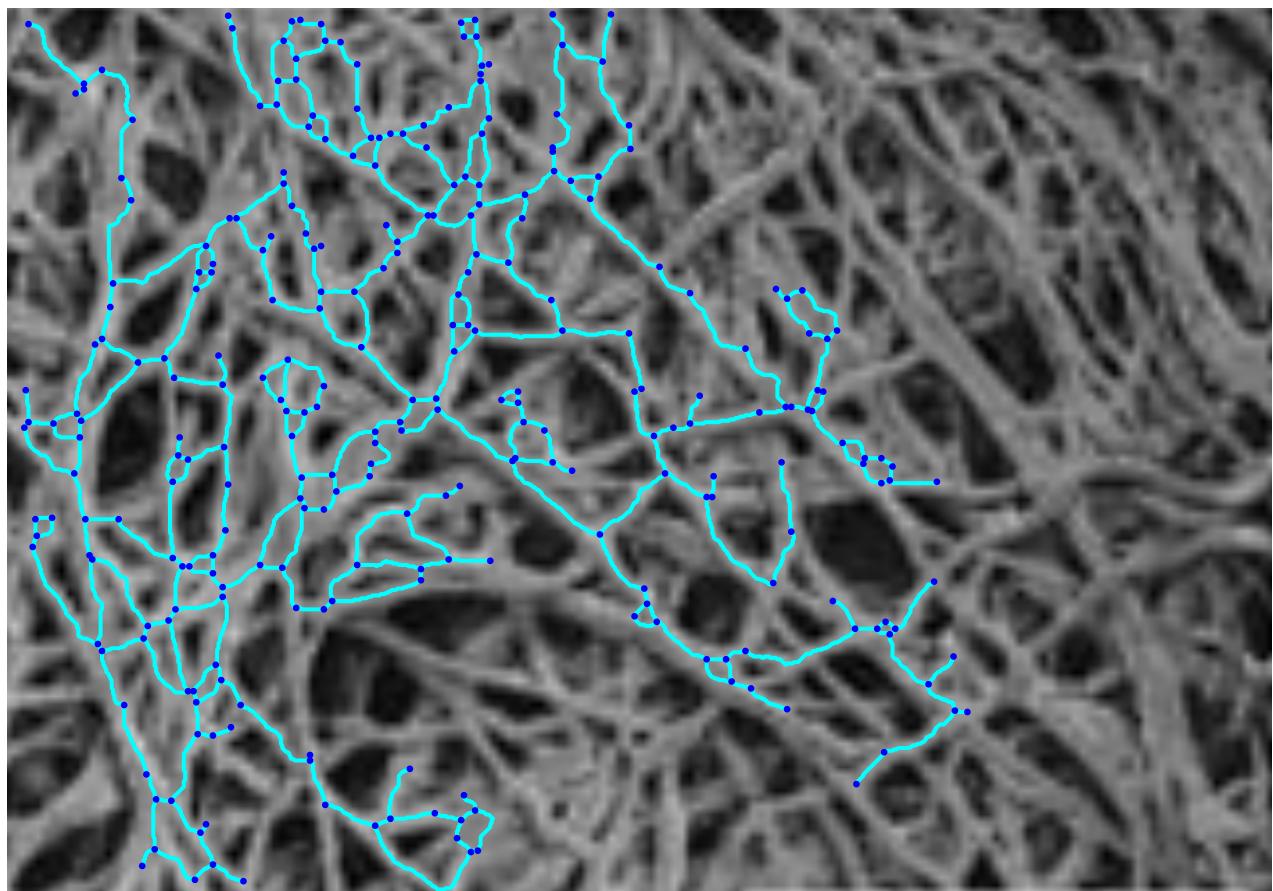
Binary Image



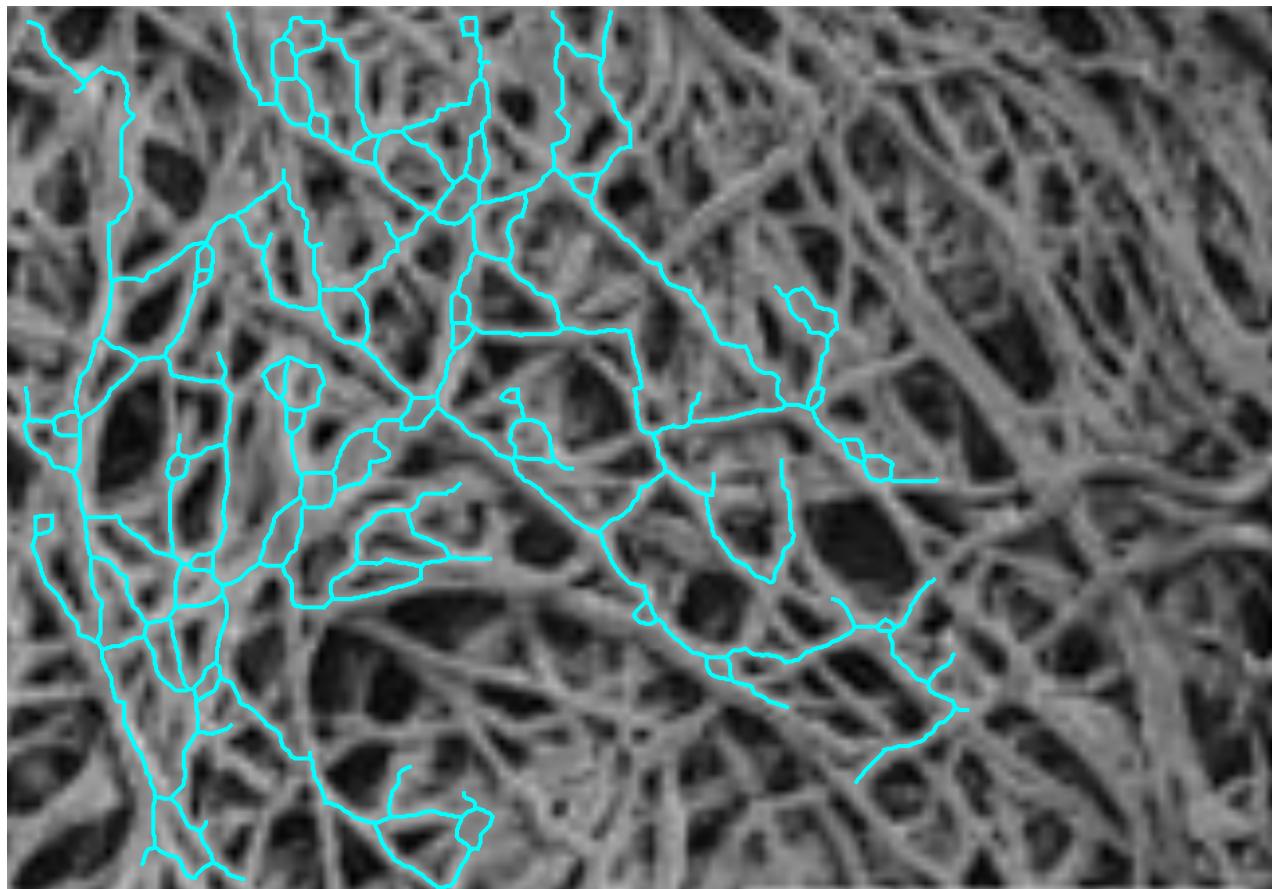
Histogram of Processed Image



Graph Node Plot



Graph Edge Plot



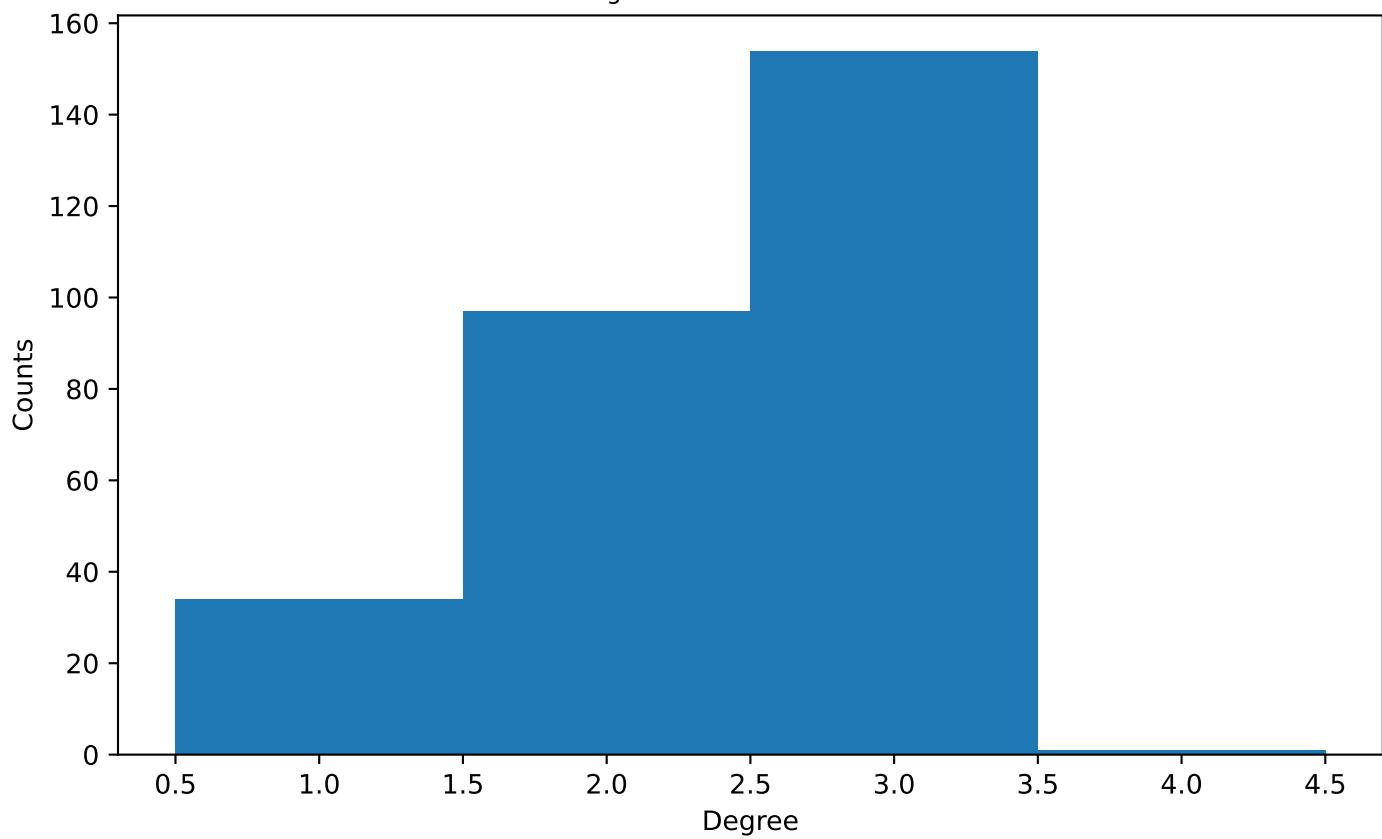
### Unweighted GT parameters

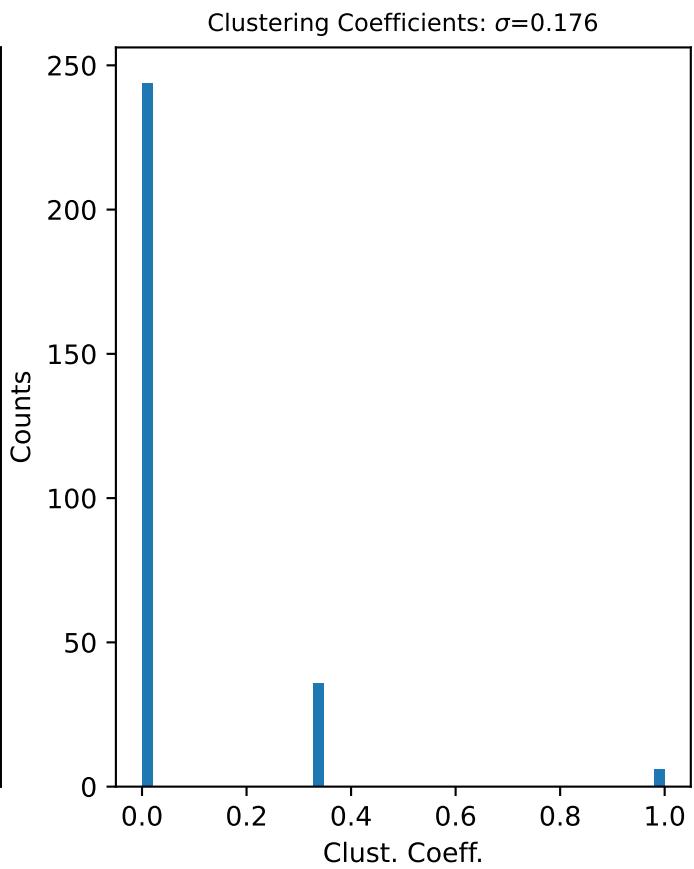
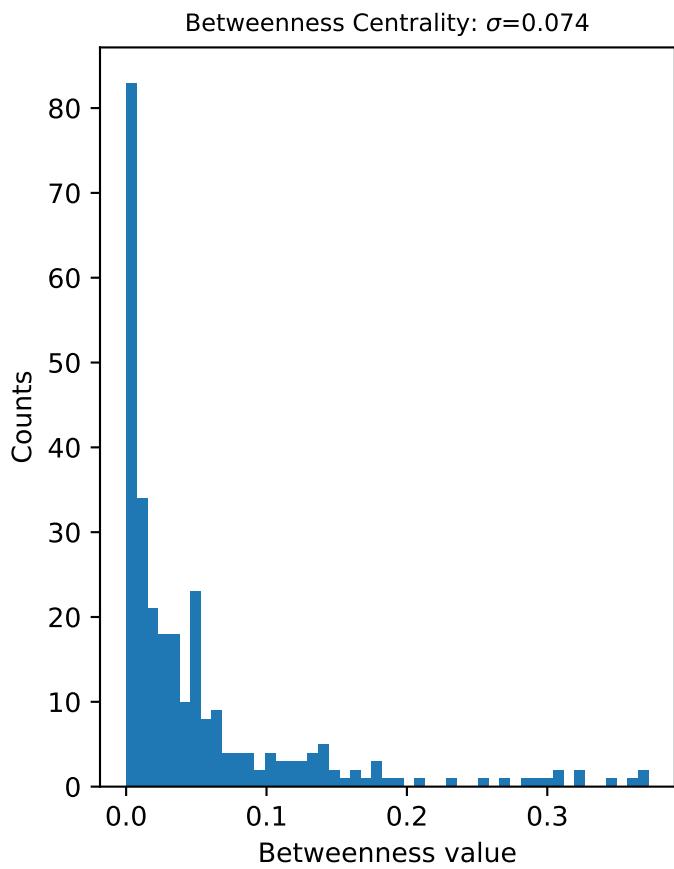
Number of nodes	286.0
Number of edges	347.0
Average edge angle (degrees)	164.153
Median edge angle (degrees)	87.138
Average degree	2.42657
Network diameter	35.0
Average node connectivity	1.18332
Graph density	0.00851
Assortativity coefficient	-0.02484
Average clustering coefficient	0.06294
Average betweenness centrality	0.05236

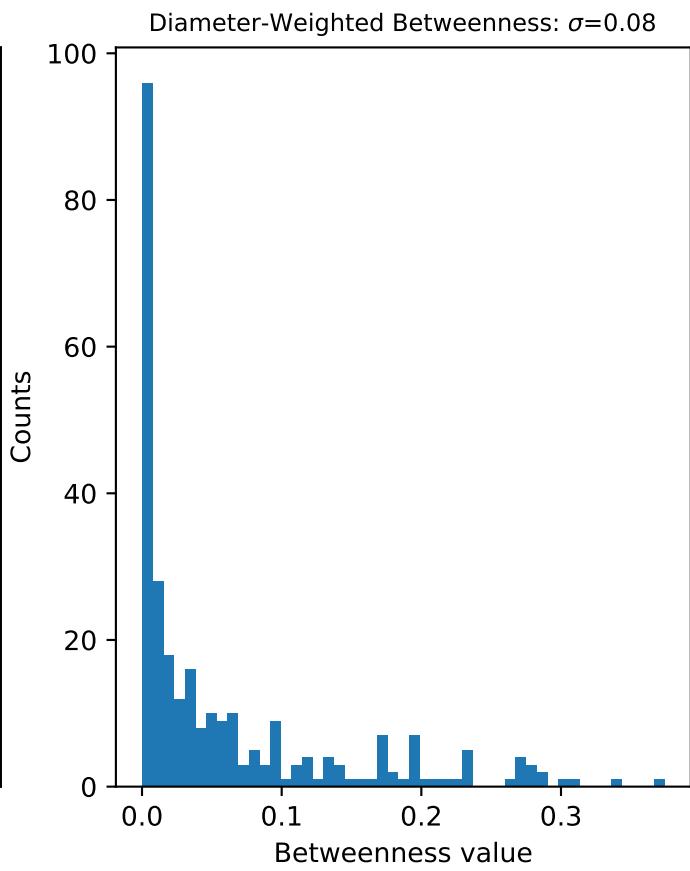
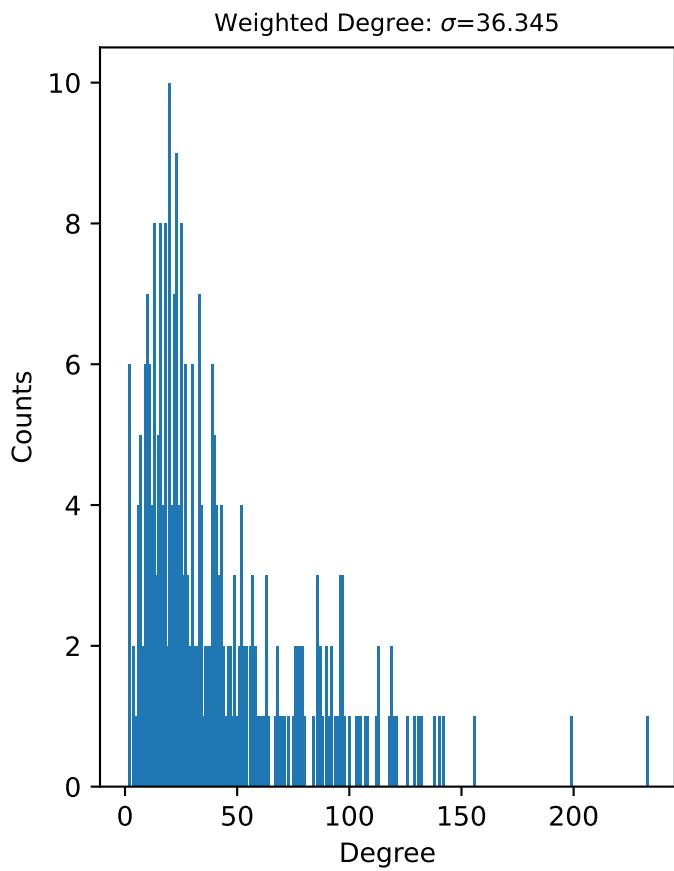
### Weighted GT parameters

Diameter-weighted average degree	43.13468
Max flow between periphery	1.91421
Width-weighted assortativity coefficient	0.56113
Diameter-weighted betweenness centrality	0.06009

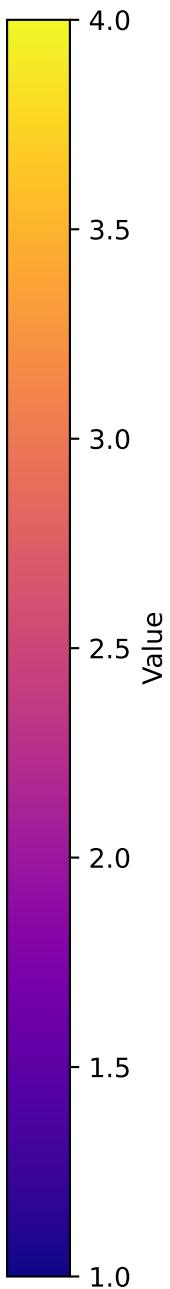
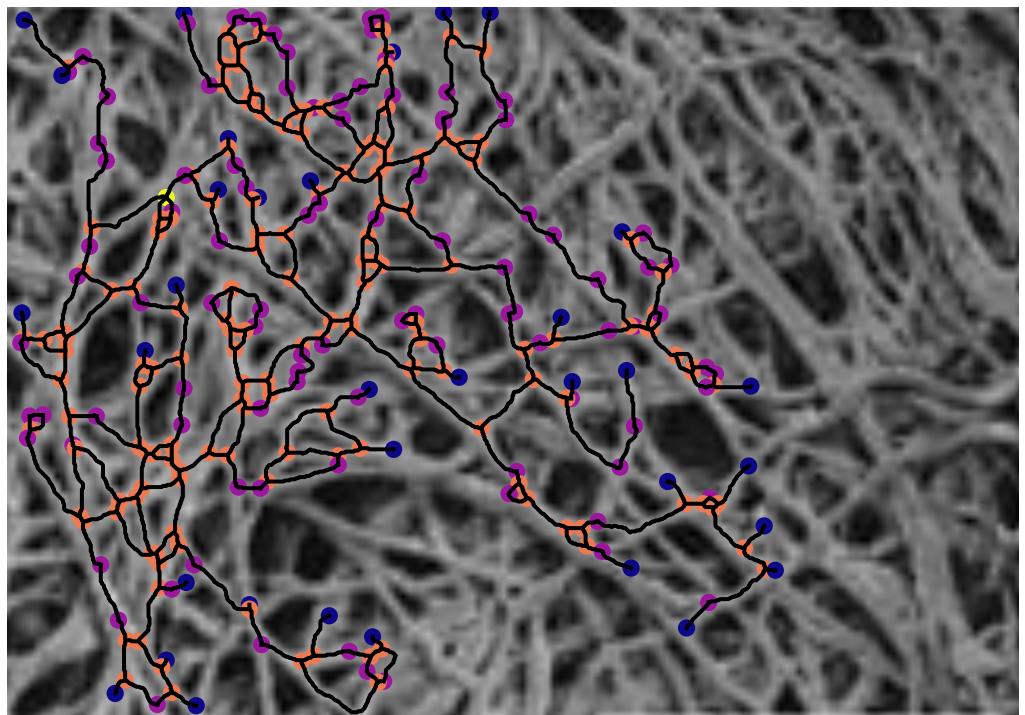
Degree Distribution:  $\sigma=0.701$



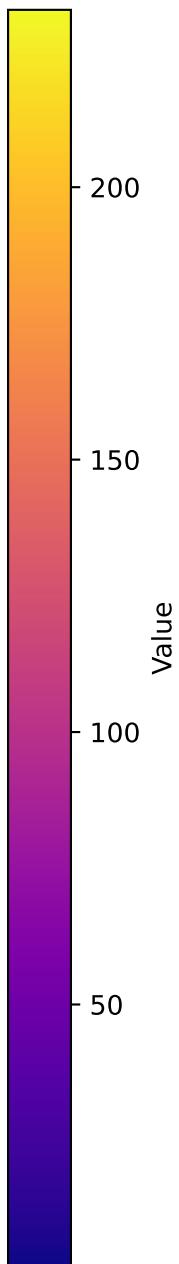
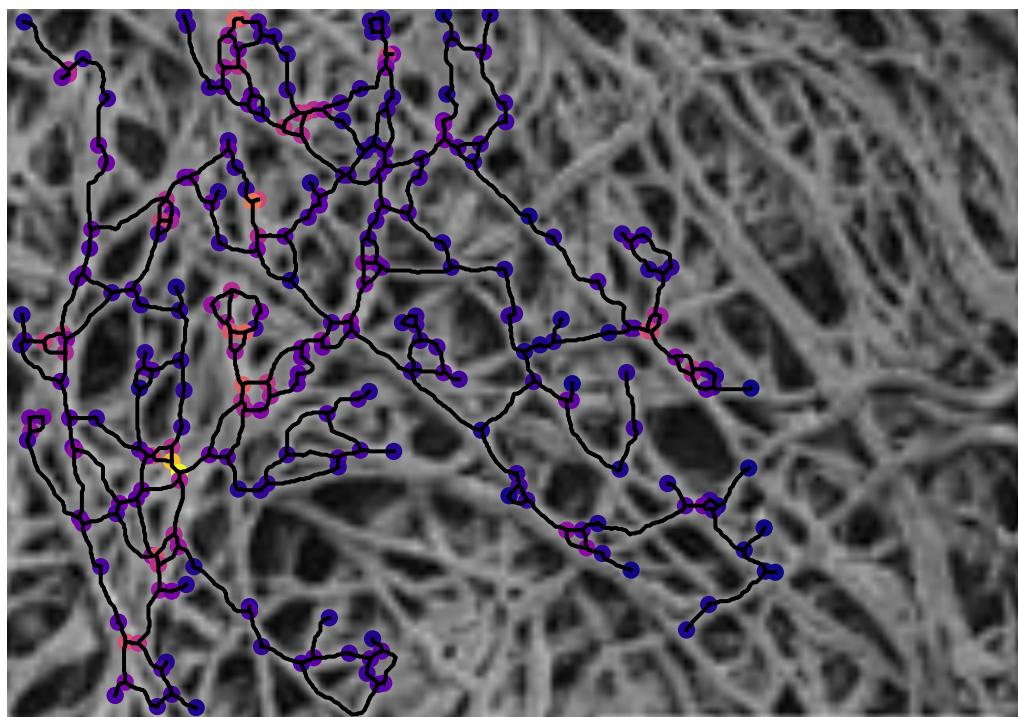




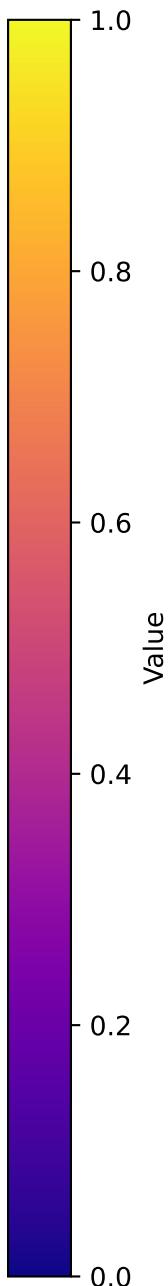
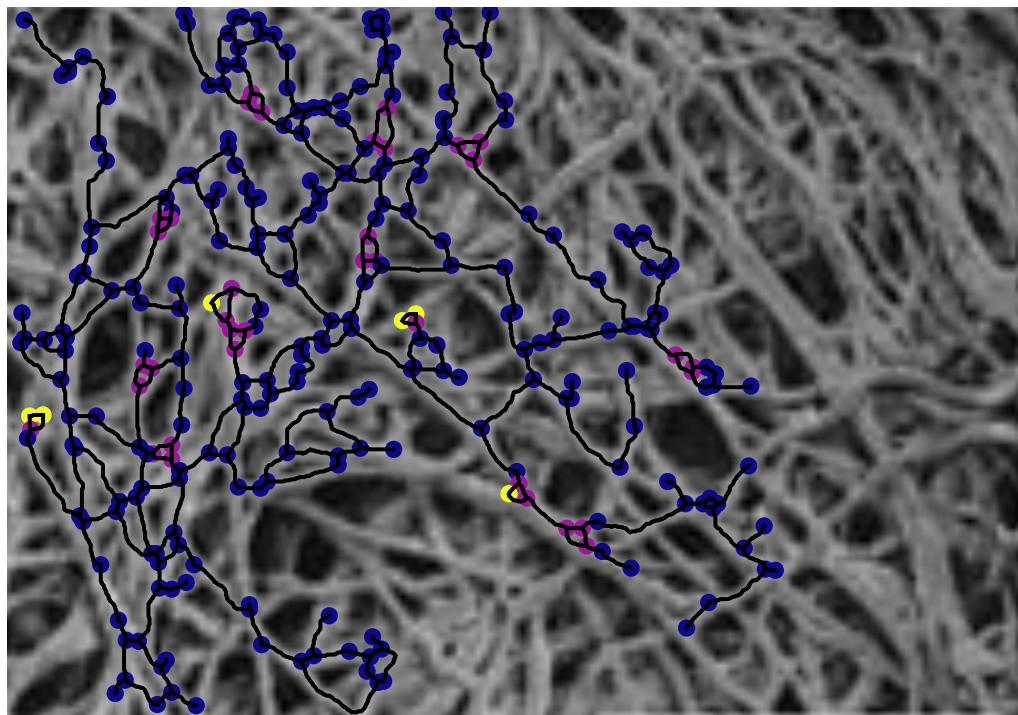
Degree Heatmap



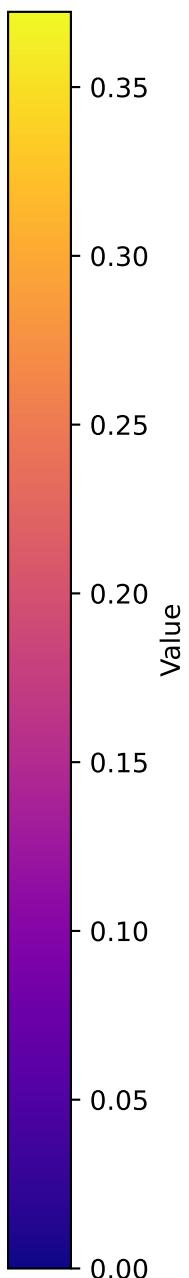
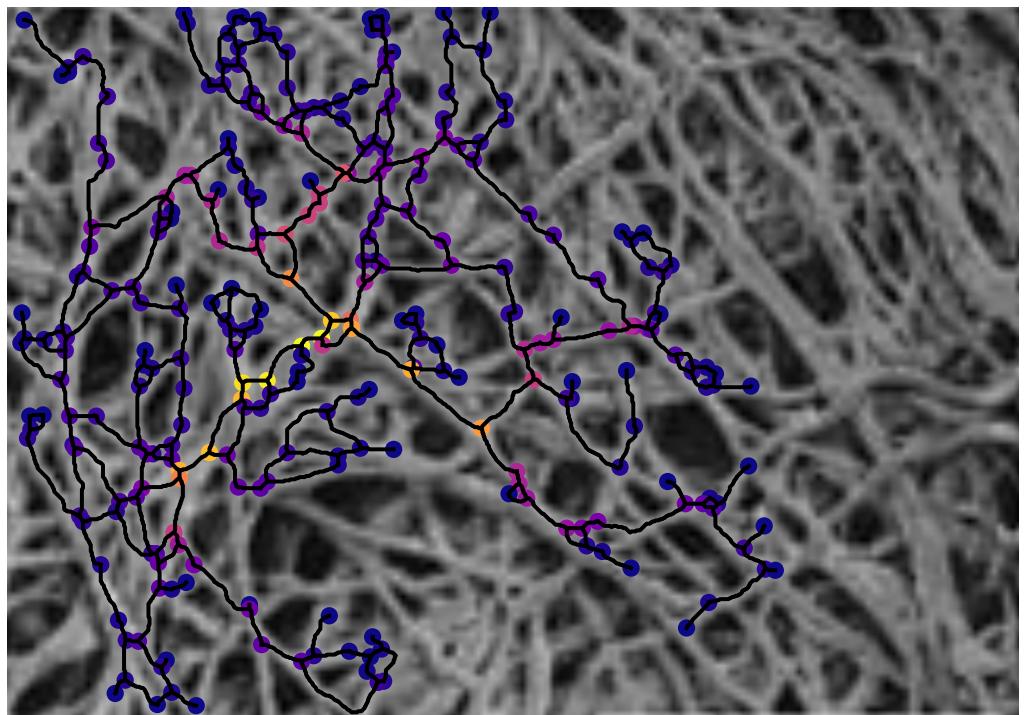
Weighted Degree Heatmap



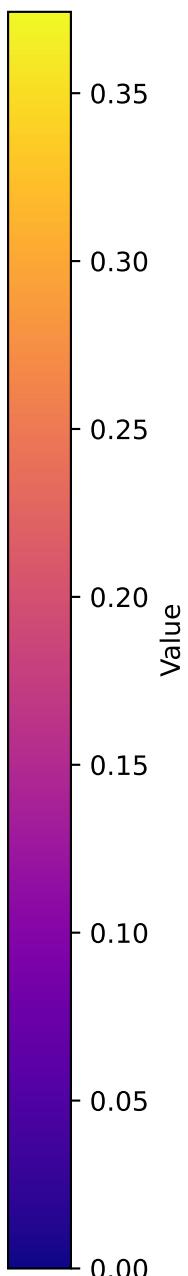
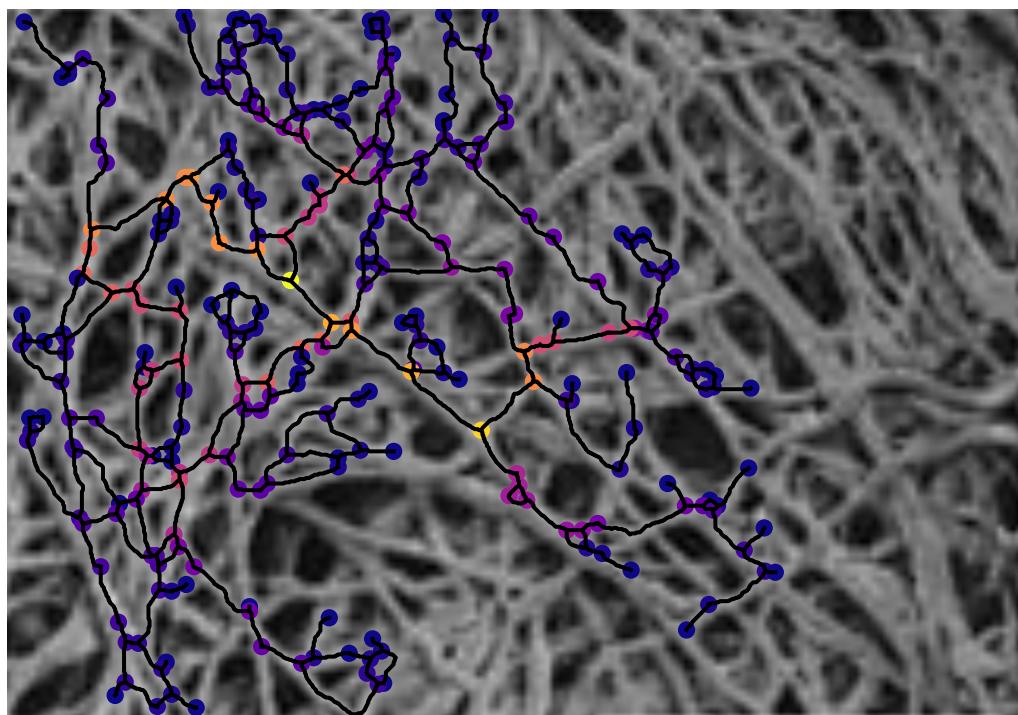
Clustering Coefficient Heatmap



Betweenness Centrality Heatmap



Diameter-Weighted Betweenness Centrality Heatmap



## Run Info

InVitroBioFilm.png  
2025-06-17 10:24:12

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\*\*\*Image Filter Configurations\*\*\*  
Global Threshold (128.0) || Gamma = 1.0

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

\*\*\*Image Scale\*\*\*  
Size = 638 x 912 px || Scale Factor = 1.0

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