

**M A S A R Y K O V A
U N I V E R Z I T A**

PŘÍRODOVĚDECKÁ FAKULTA

Graph-based modelling of spatial distribution of lymphocytes

Bakalářská práce

ANETA BÖHMOVÁ

Vedoucí práce: doc. Ing. Vlad Popovici, PhD

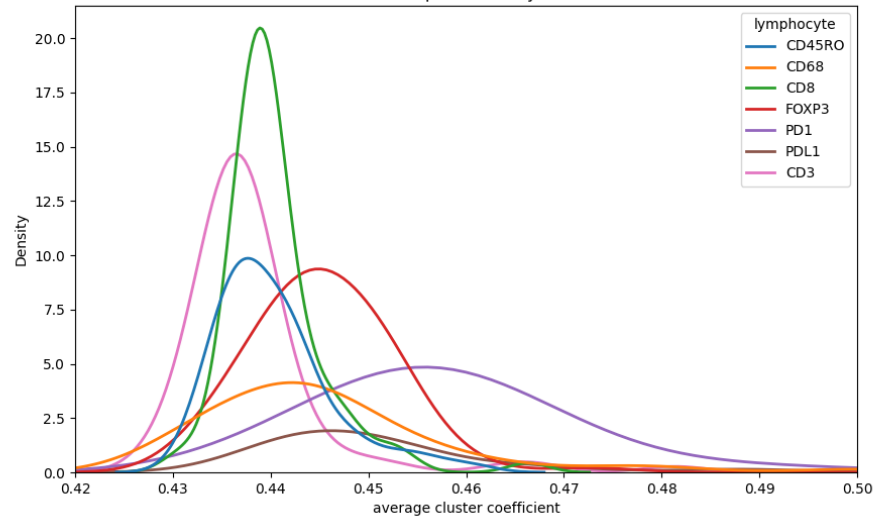
RECETOX

Program Matematická biologie a biomedicína

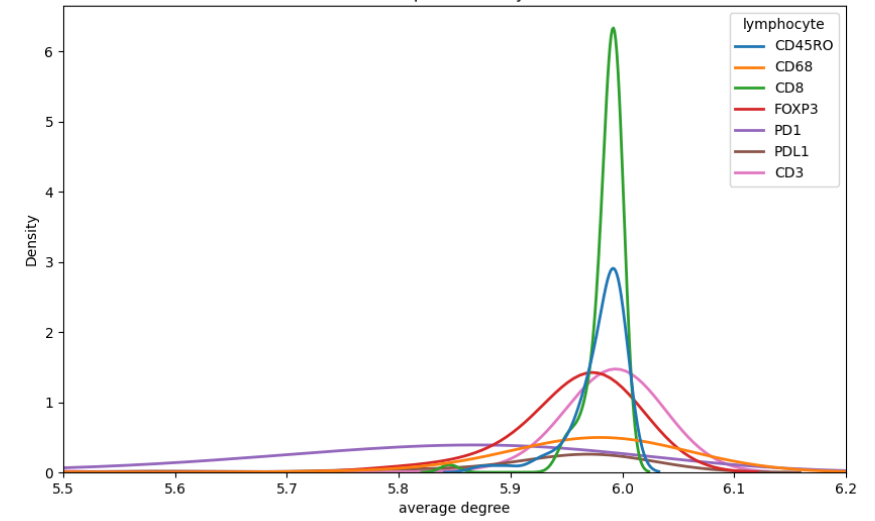
Brno 2024

KDE plots

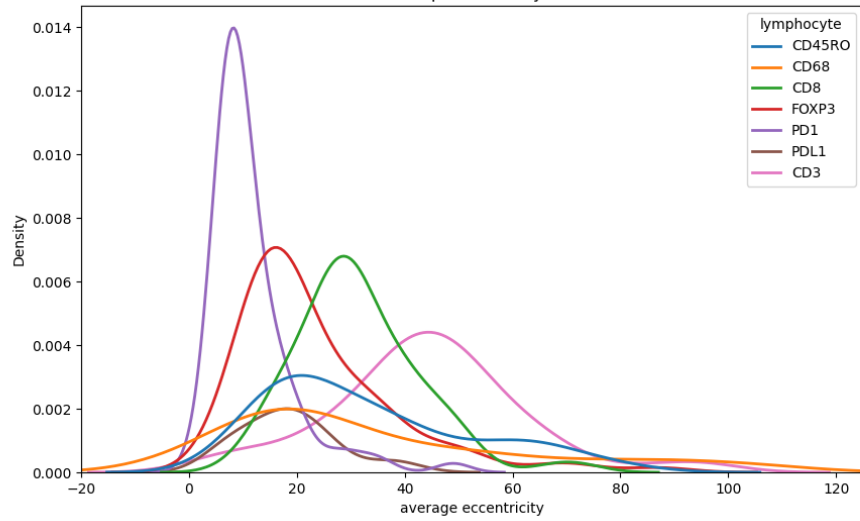
Distribution of average cluster coefficient
Graph: Delaunay



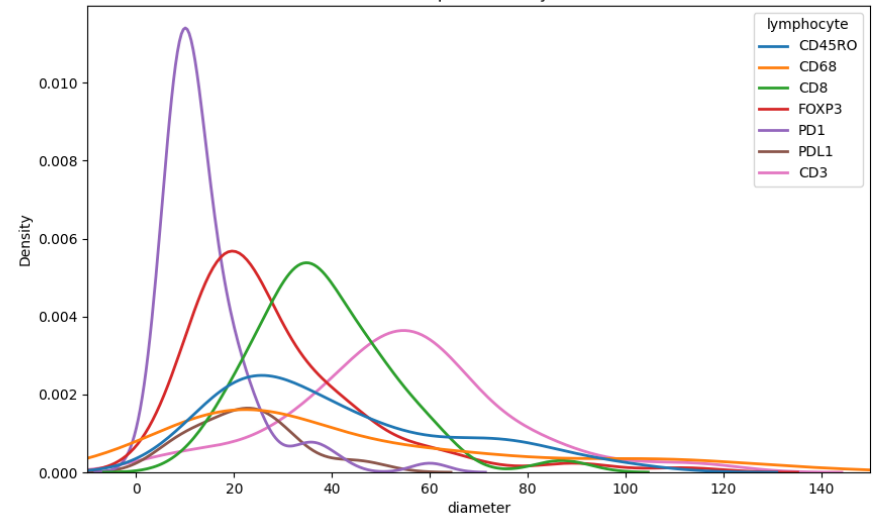
Distribution of average degree
Graph: Delaunay

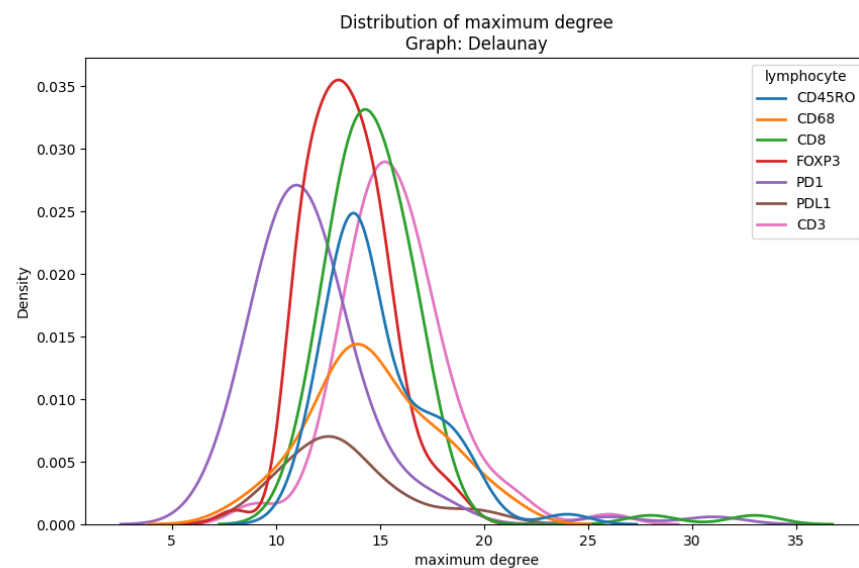
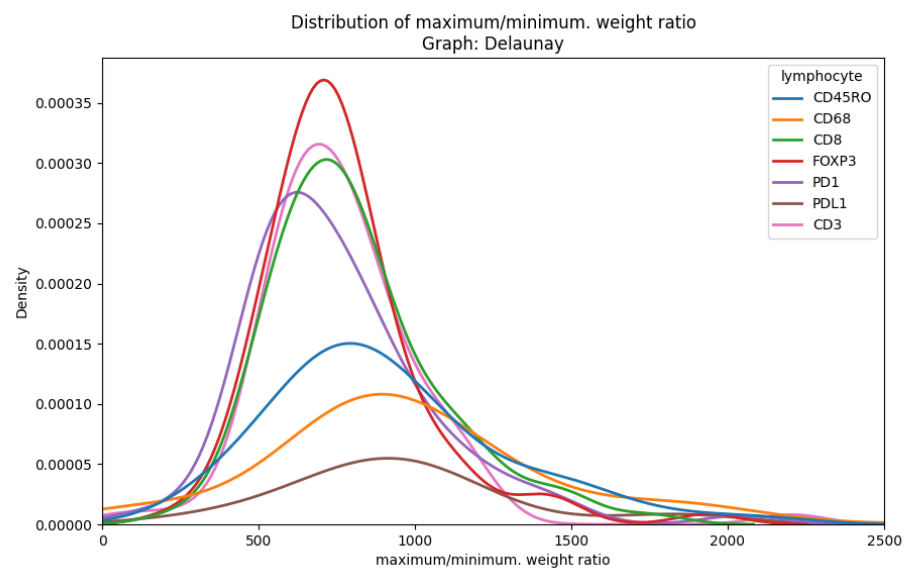
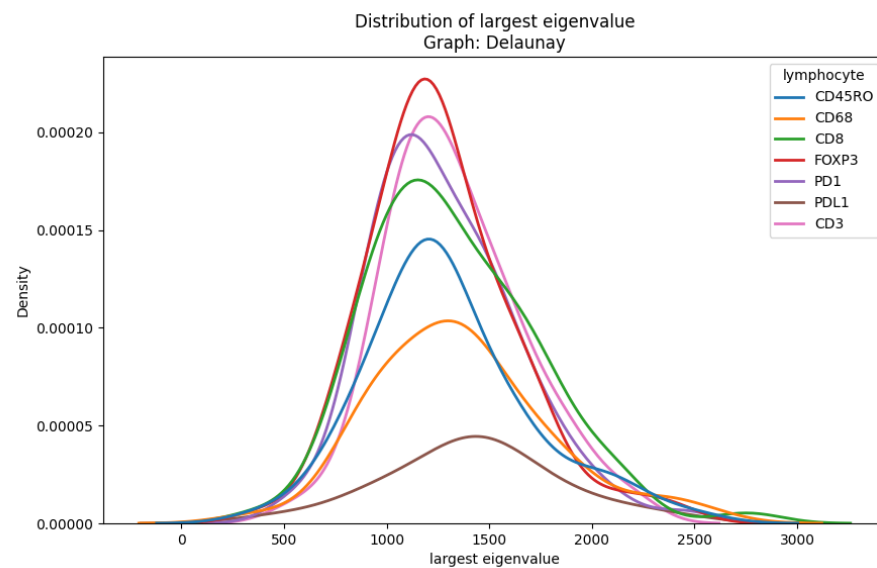
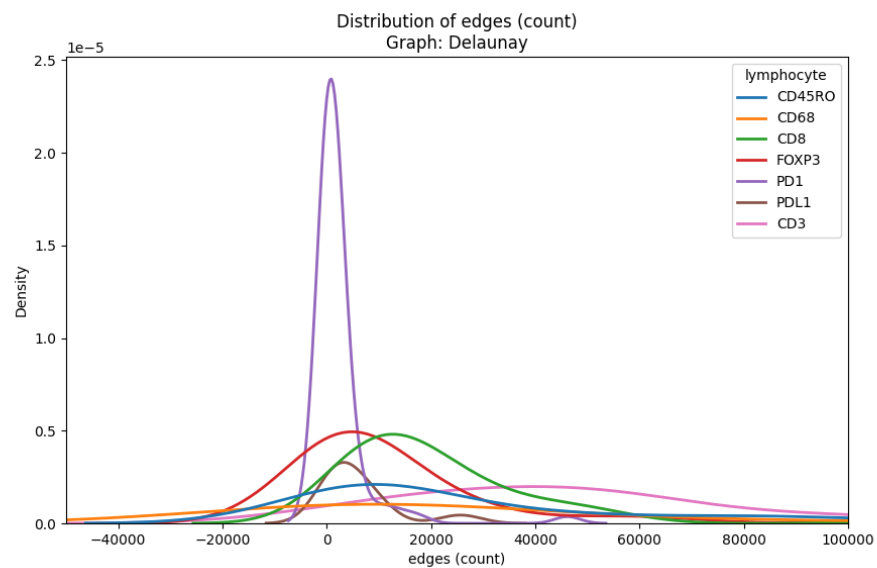


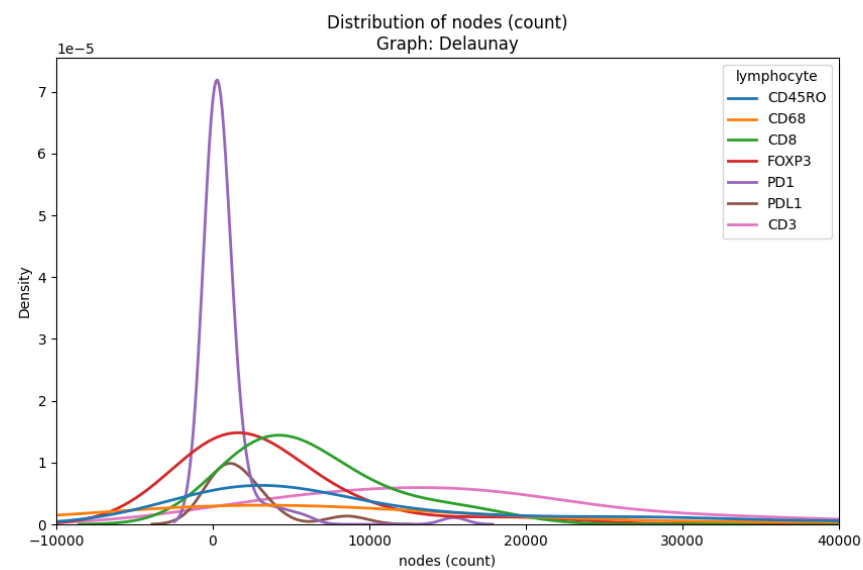
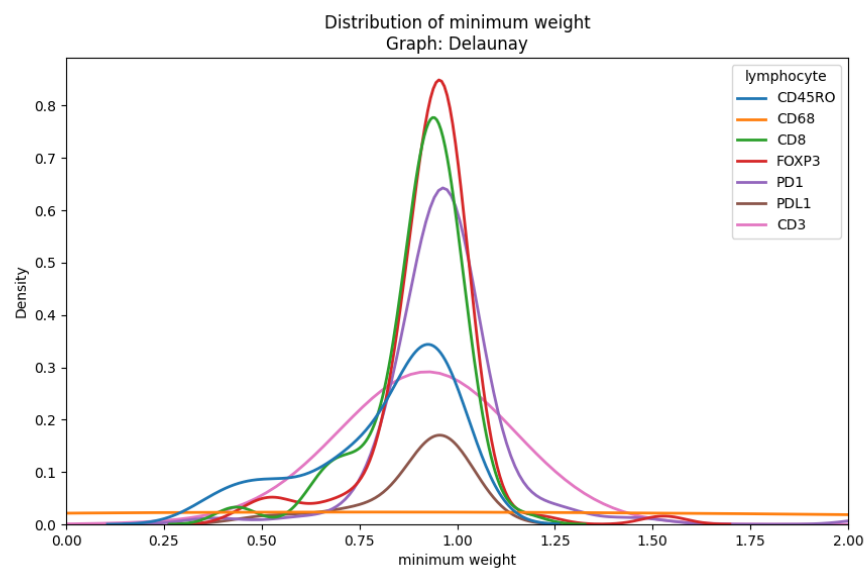
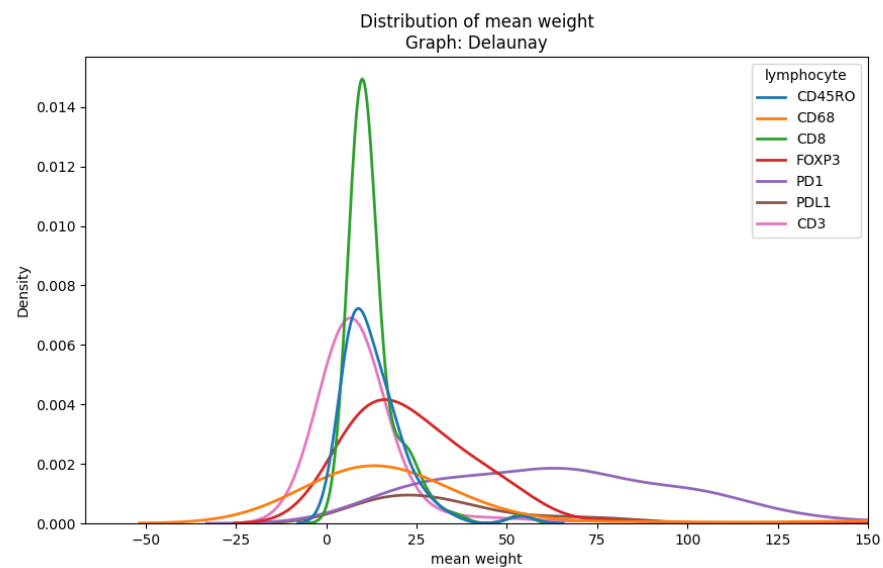
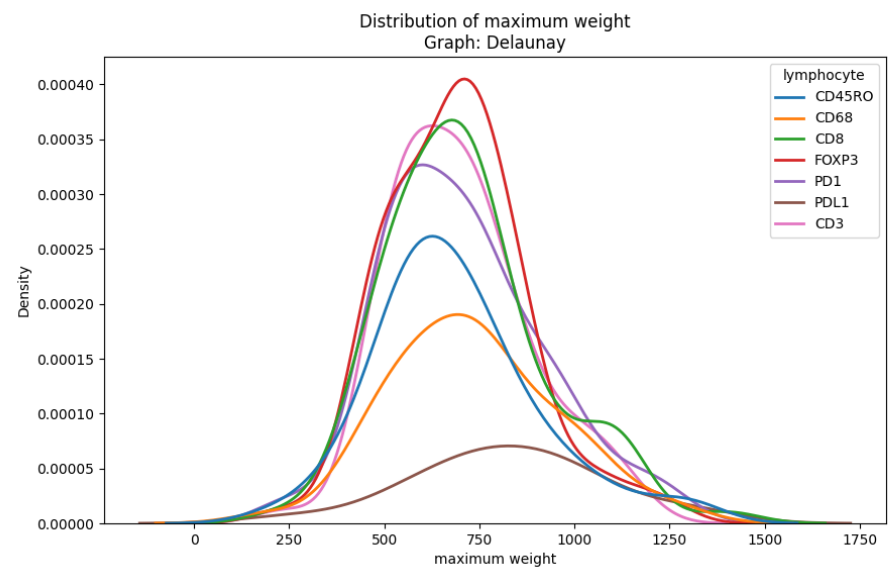
Distribution of average eccentricity
Graph: Delaunay



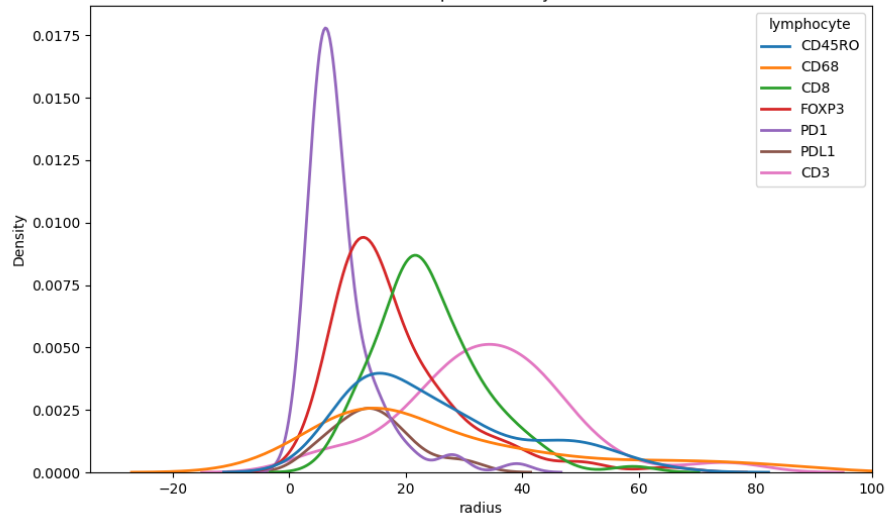
Distribution of diameter
Graph: Delaunay



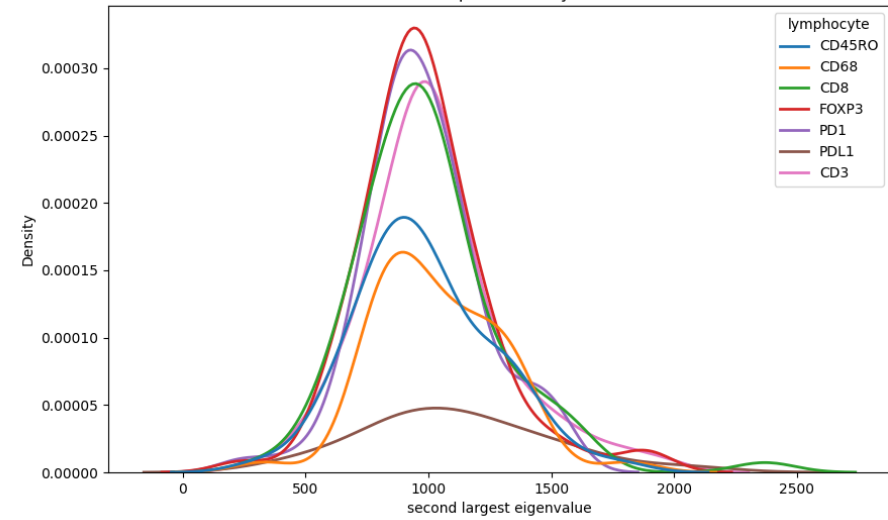




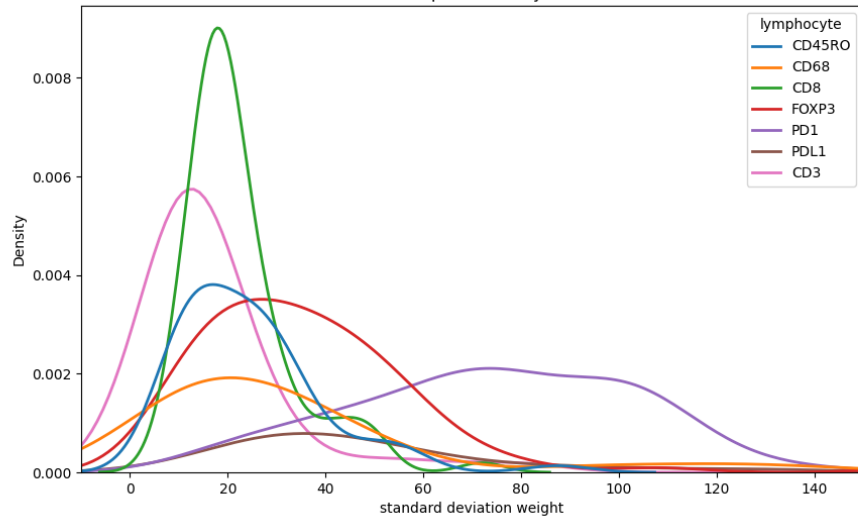
Distribution of radius
Graph: Delaunay



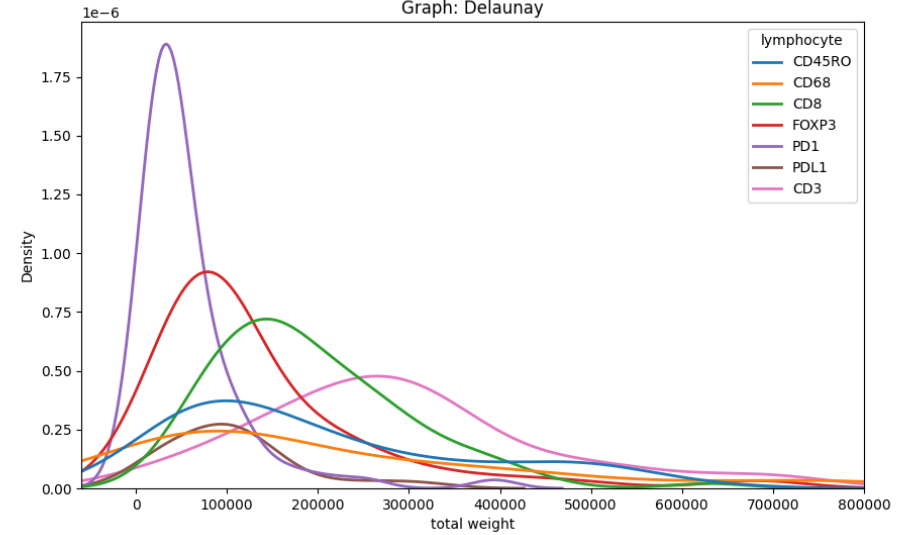
Distribution of second largest eigenvalue
Graph: Delaunay

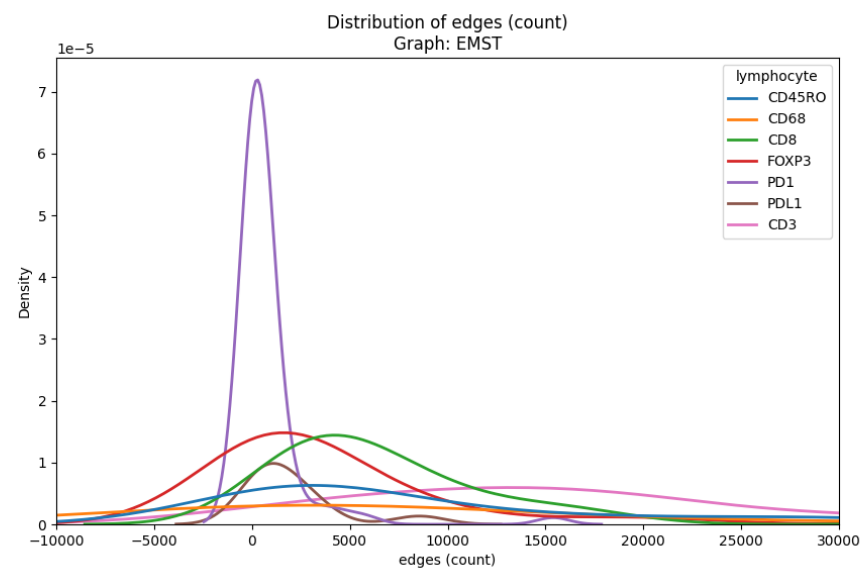
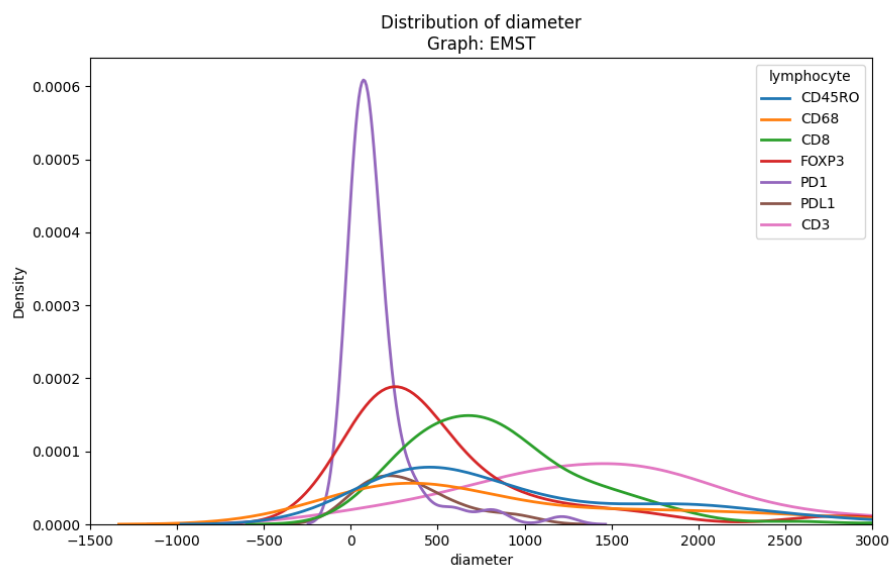
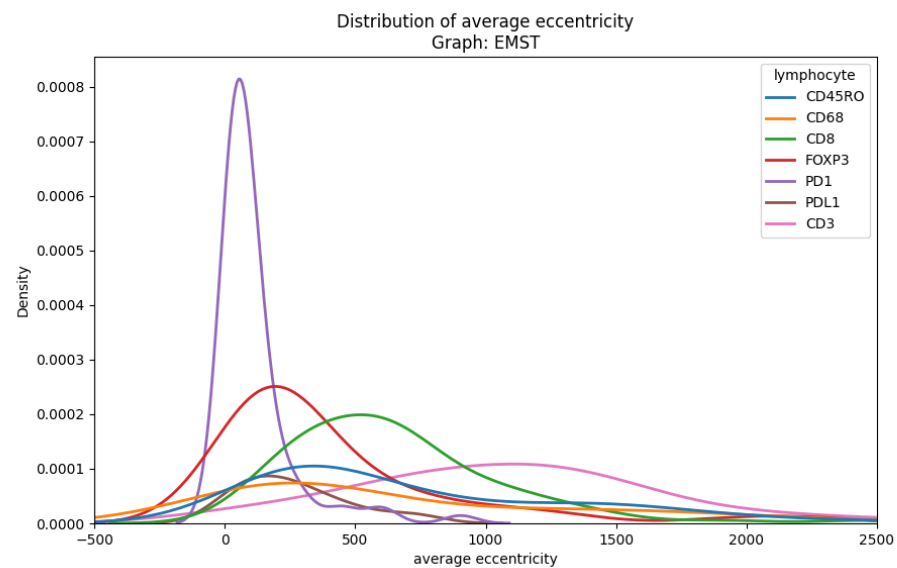
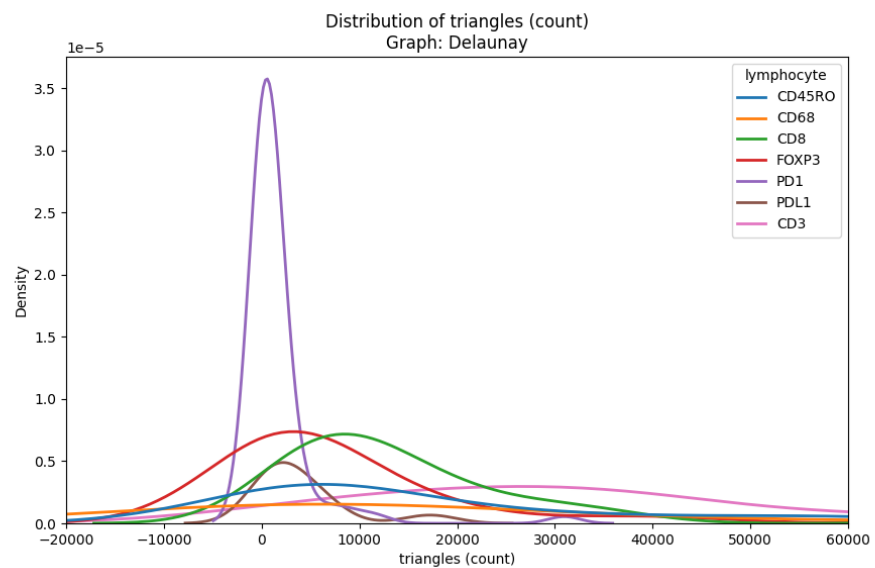


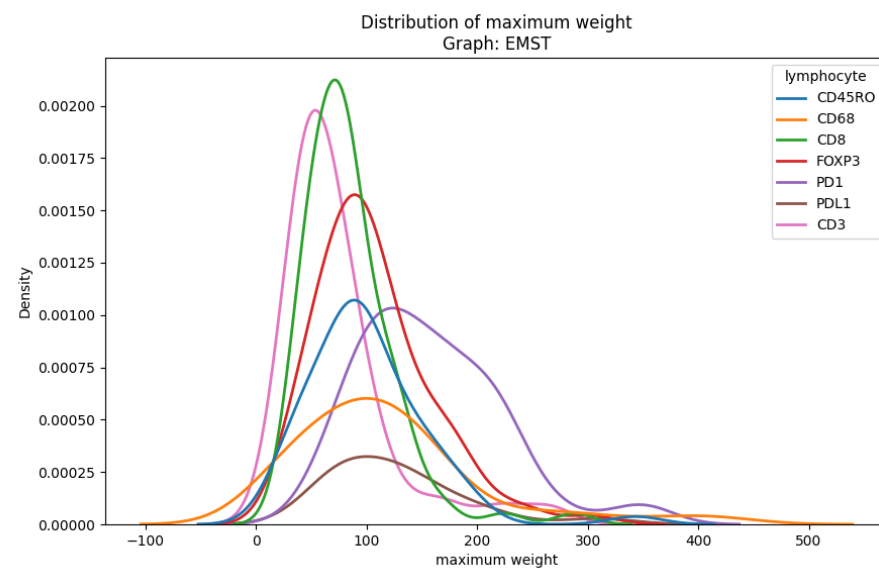
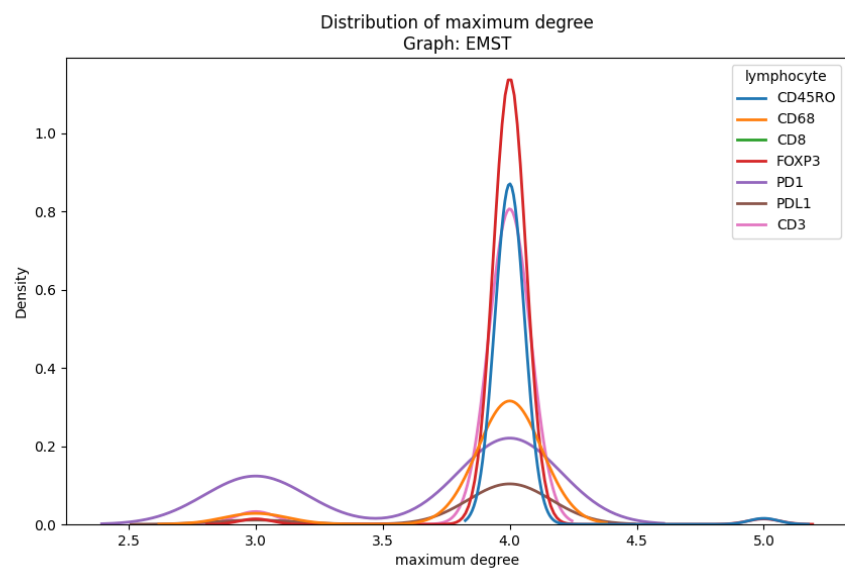
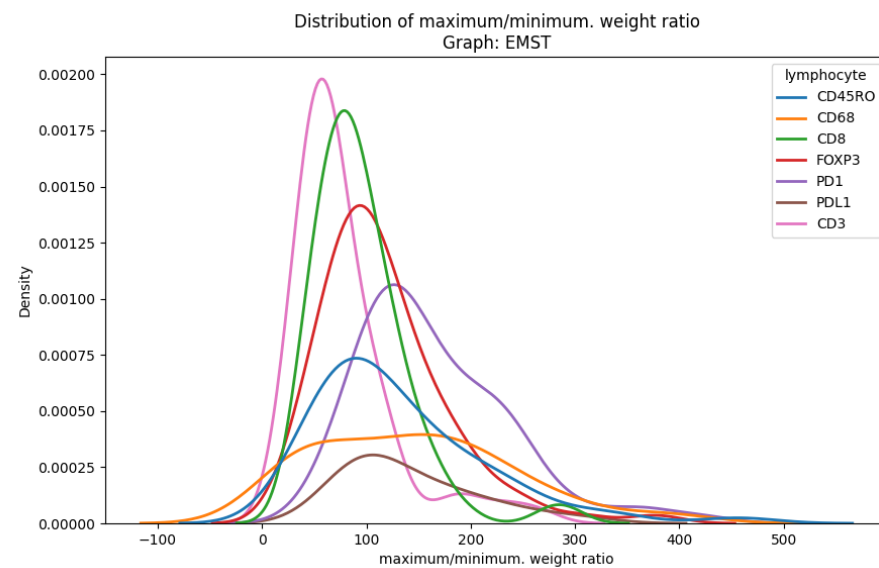
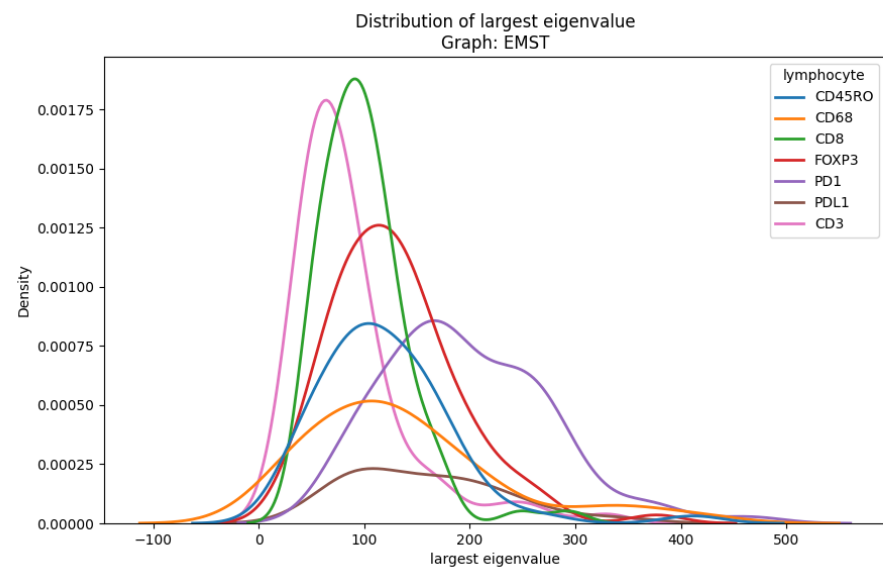
Distribution of standard deviation weight
Graph: Delaunay



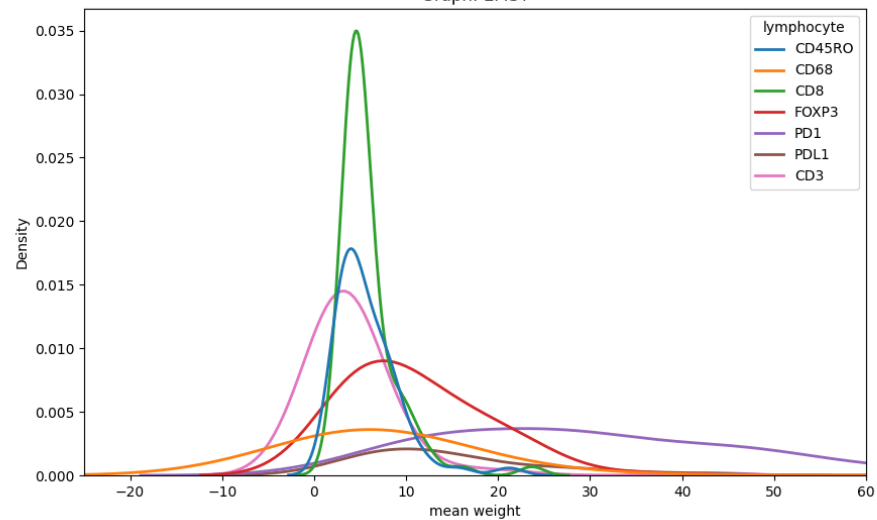
Distribution of total weight
Graph: Delaunay



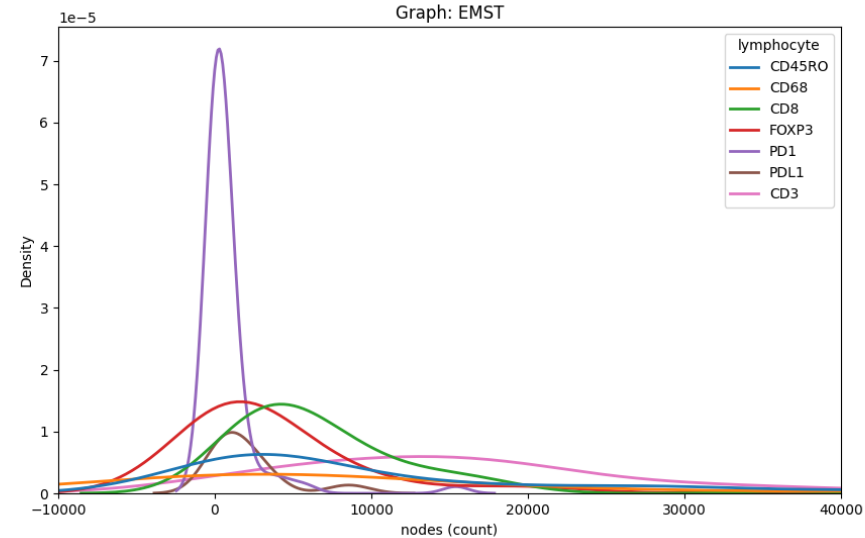




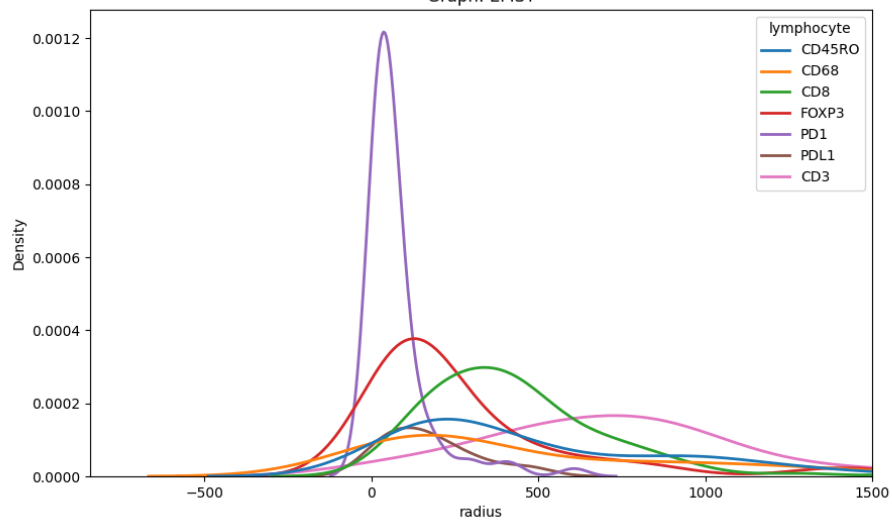
Distribution of mean weight
Graph: EMST



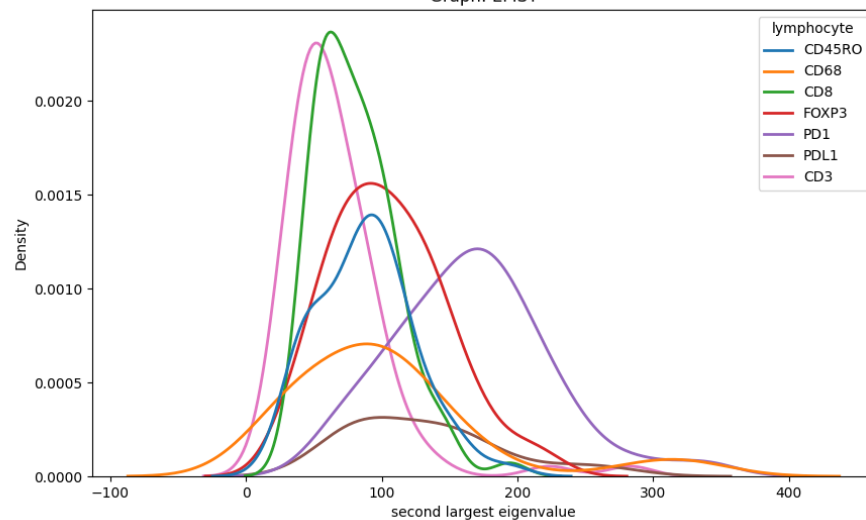
Distribution of nodes (count)
Graph: EMST

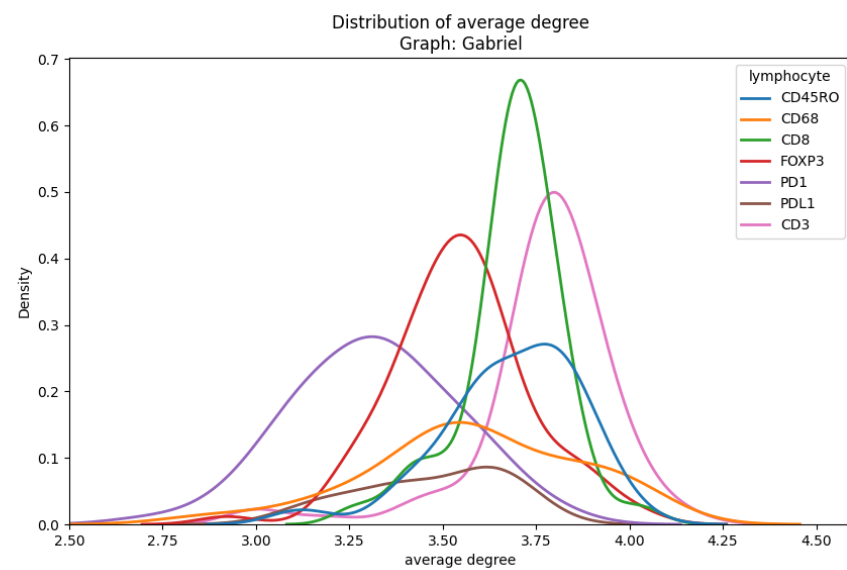
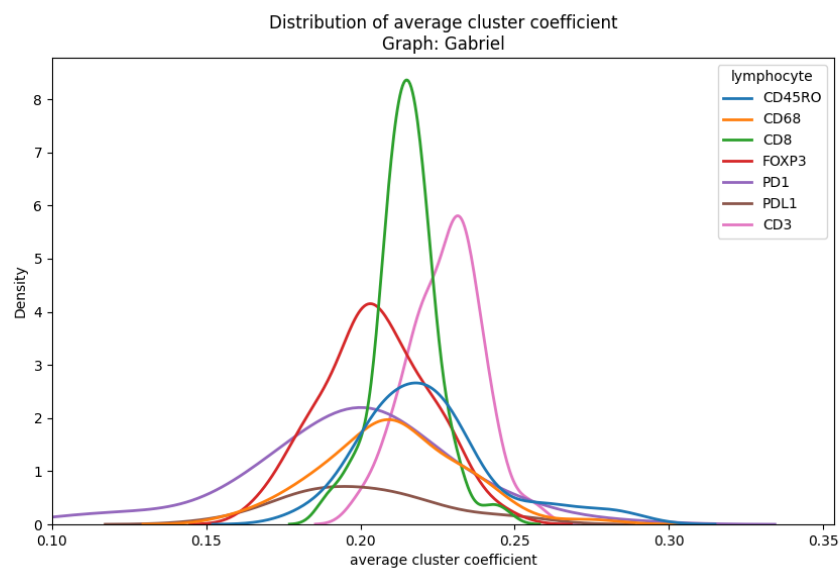
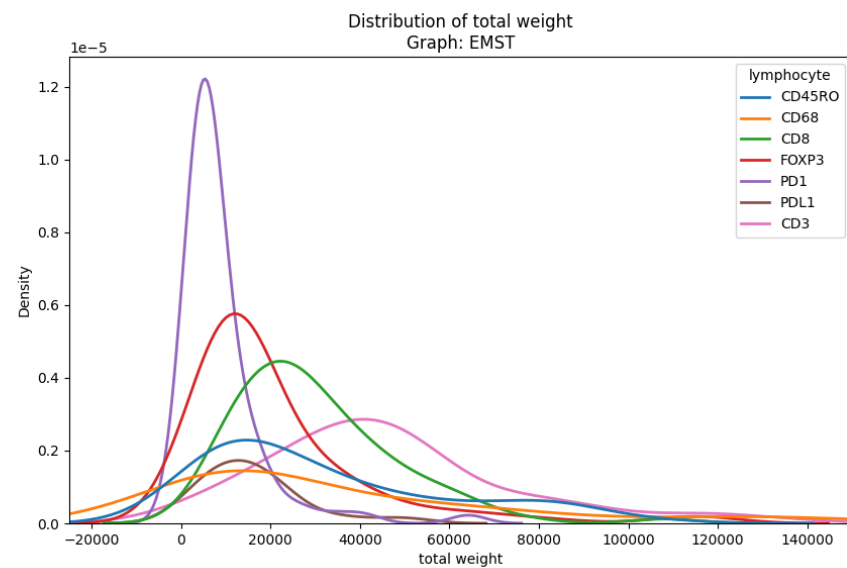
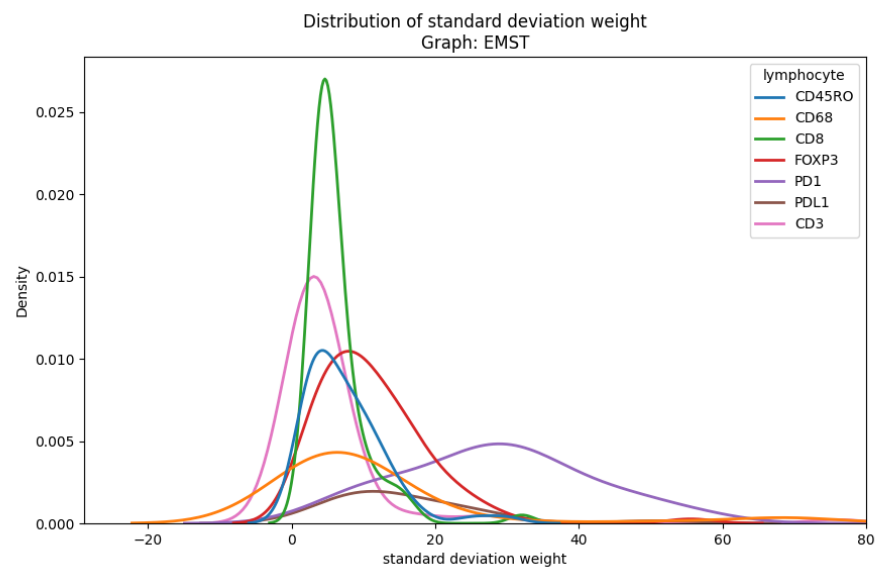


Distribution of radius
Graph: EMST

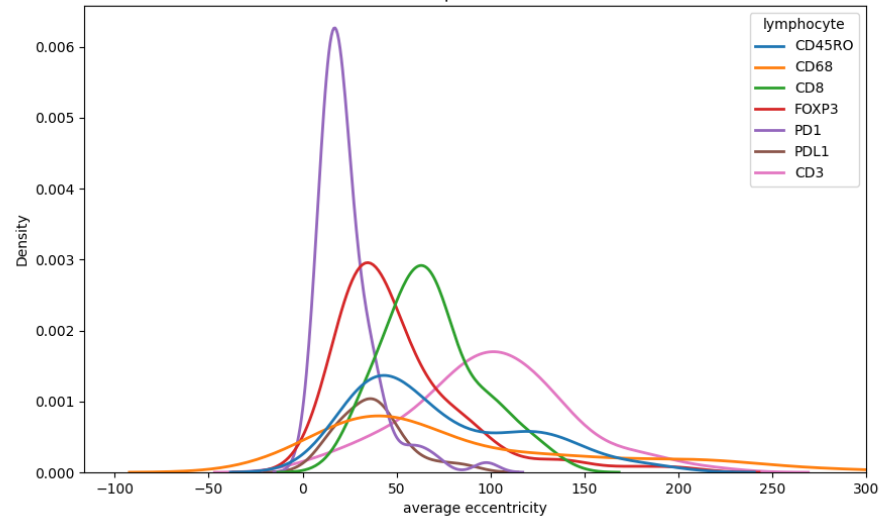


Distribution of second largest eigenvalue
Graph: EMST

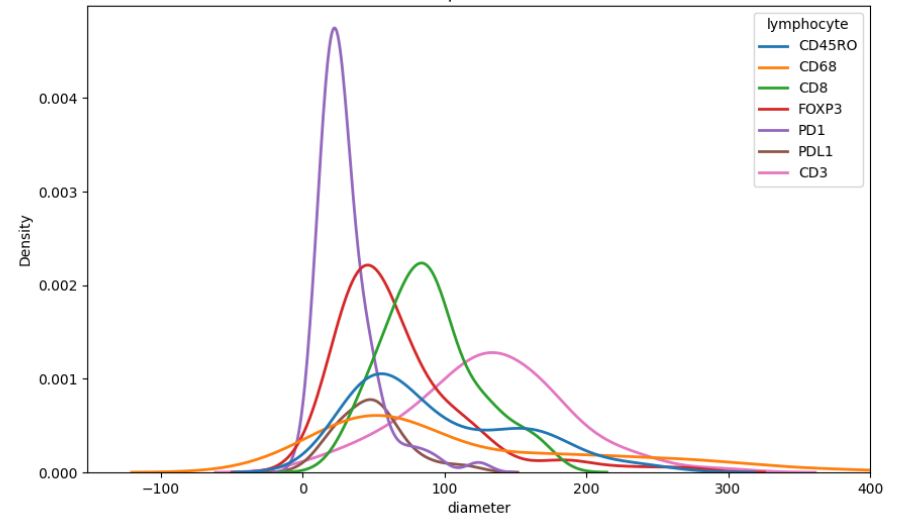




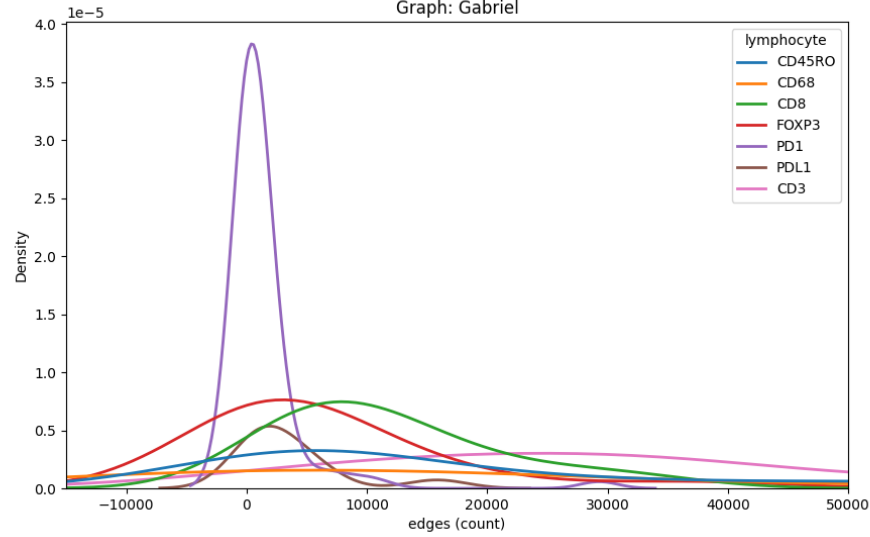
Distribution of average eccentricity
Graph: Gabriel



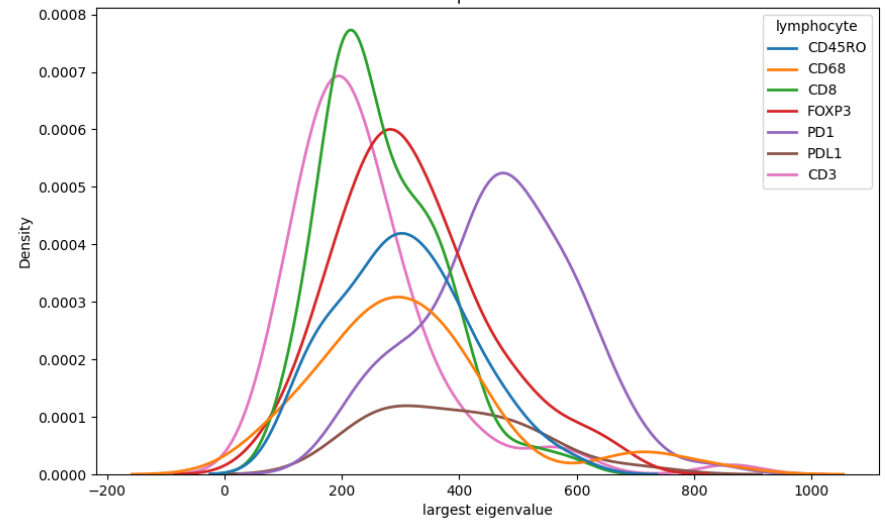
Distribution of diameter
Graph: Gabriel



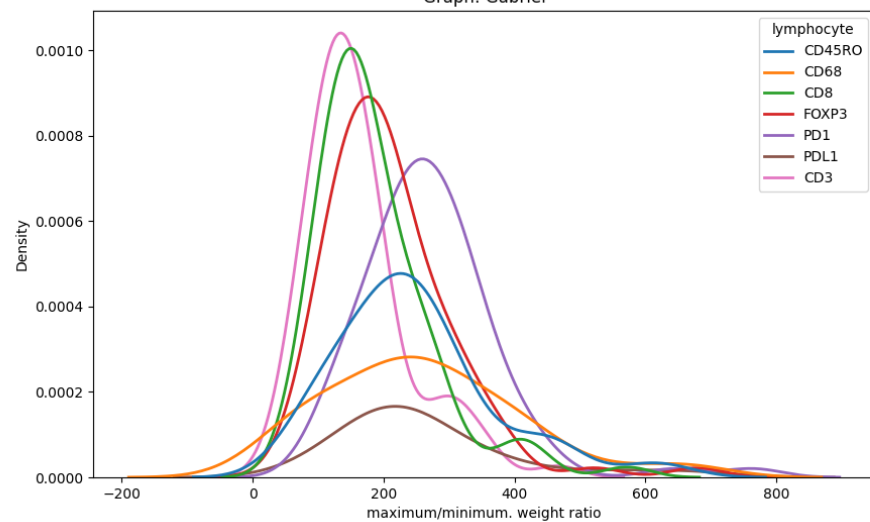
Distribution of edges (count)
Graph: Gabriel



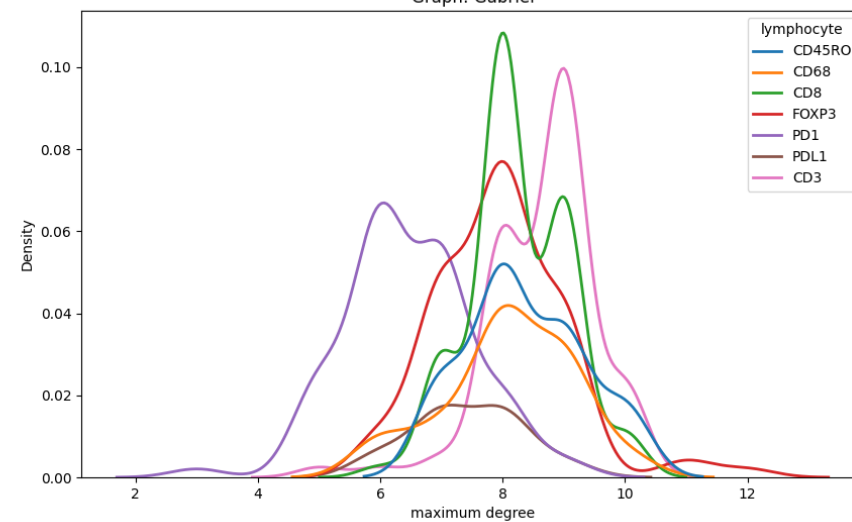
Distribution of largest eigenvalue
Graph: Gabriel



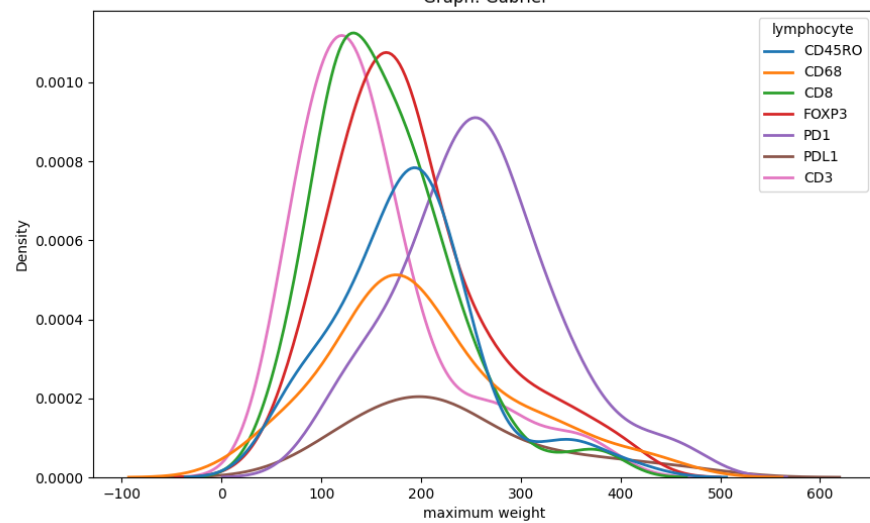
Distribution of maximum/minimum. weight ratio
Graph: Gabriel



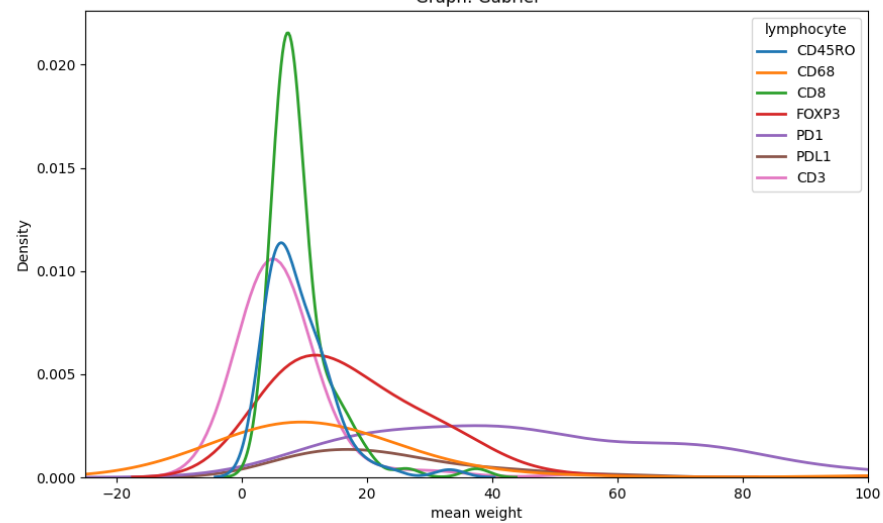
Distribution of maximum degree
Graph: Gabriel



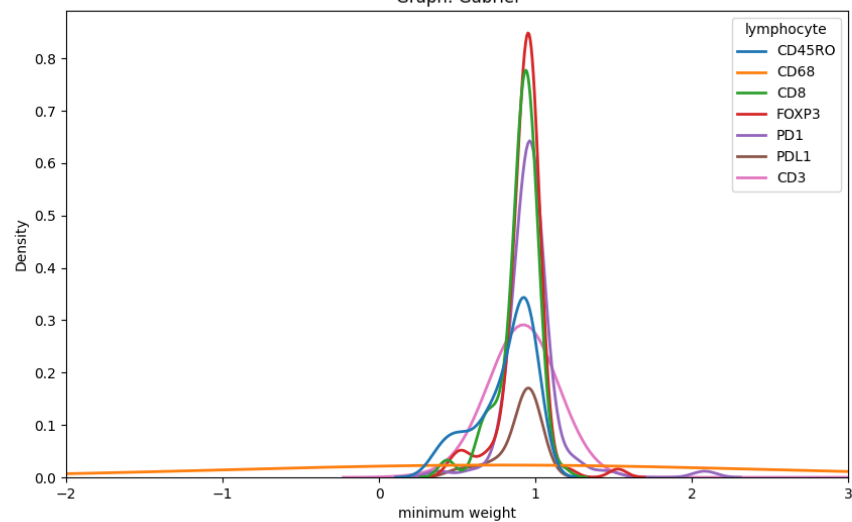
Distribution of maximum weight
Graph: Gabriel



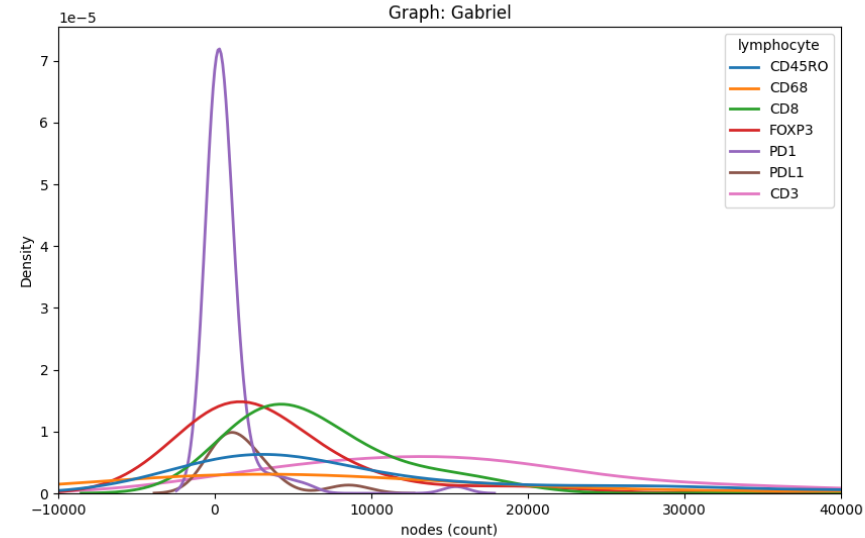
Distribution of mean weight
Graph: Gabriel



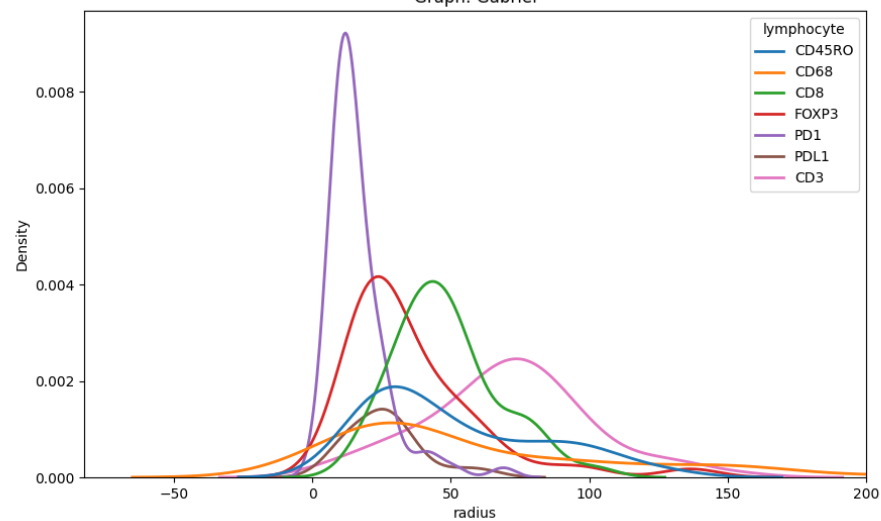
Distribution of minimum weight
Graph: Gabriel



Distribution of nodes (count)
Graph: Gabriel



Distribution of radius
Graph: Gabriel



Distribution of second largest eigenvalue
Graph: Gabriel

