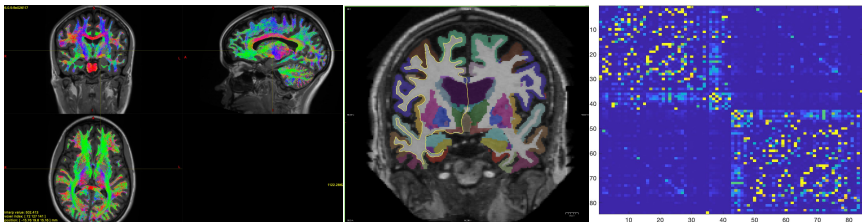


Macro Scale Network Representation of a Human Connectome

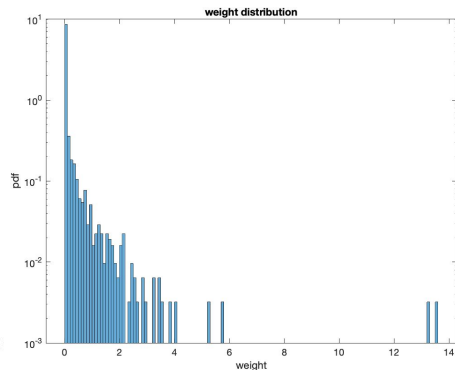
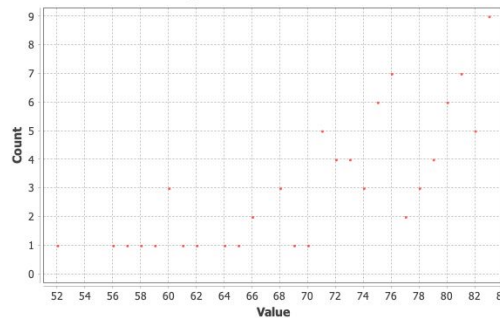
Qiaohan Yang, Interdepartmental Neuroscience
Physics 465 final project

Data and Method

Diffusion weighted imaging data from Zelano lab,
Dept. of Neurology

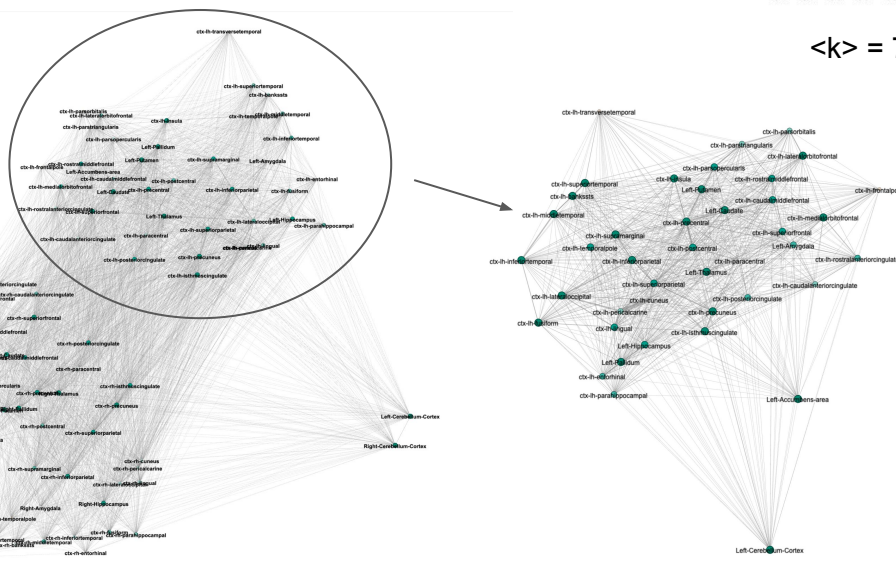


Degree Distribution



Result

$$\langle k \rangle = 74.238, \langle l \rangle = 1.03, \langle C \rangle = 0.915$$



Observations :

Human brain is very densely connected on a macro scale.

Low degree nodes are primary sensory and motor regions.

Strongest edges are between primary sensory and motor regions that are close anatomically.