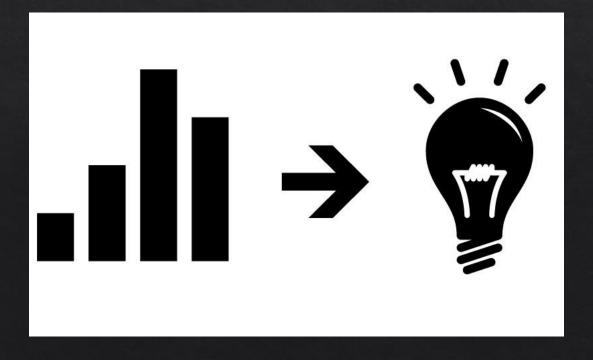
Graph Classification using Signal-Subgraphs: Applications in Statistical Connectomics

Written by JT Vogelstein, WR Gray-Roncal, RJ Vogelstein, CE Priebe

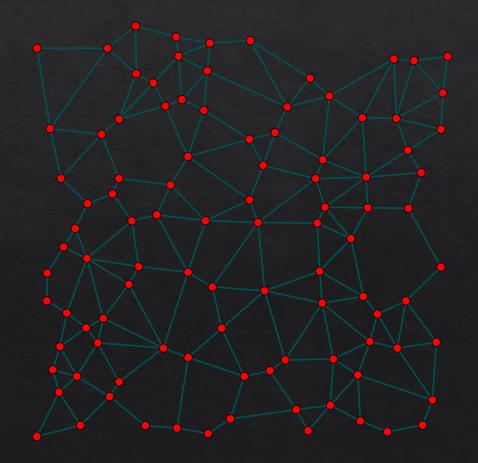
Opportunity

- Connectome presents massive data
- Data presents insights



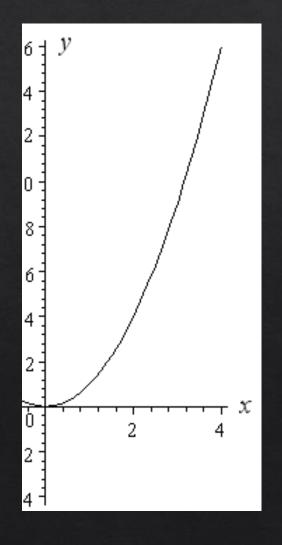
Challenges

- Graph vs vector classification
- Connectivity matrix?
- Massive data downsides?



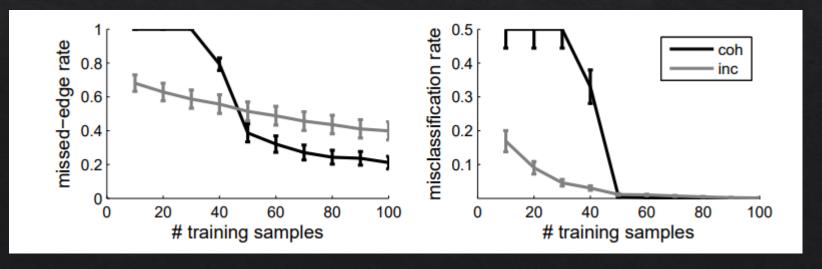
Action

- Consider Signal-Subgraphs
- Constrain edges, vertices
- Quadratic in number of vertices



Results

- Beats benchmark classifiers
- Missed edges in signal-subgraphs?
- More training samples?



Feedback

- Liked paper
- Methods section very technical
- ♦Signal-subgraph?