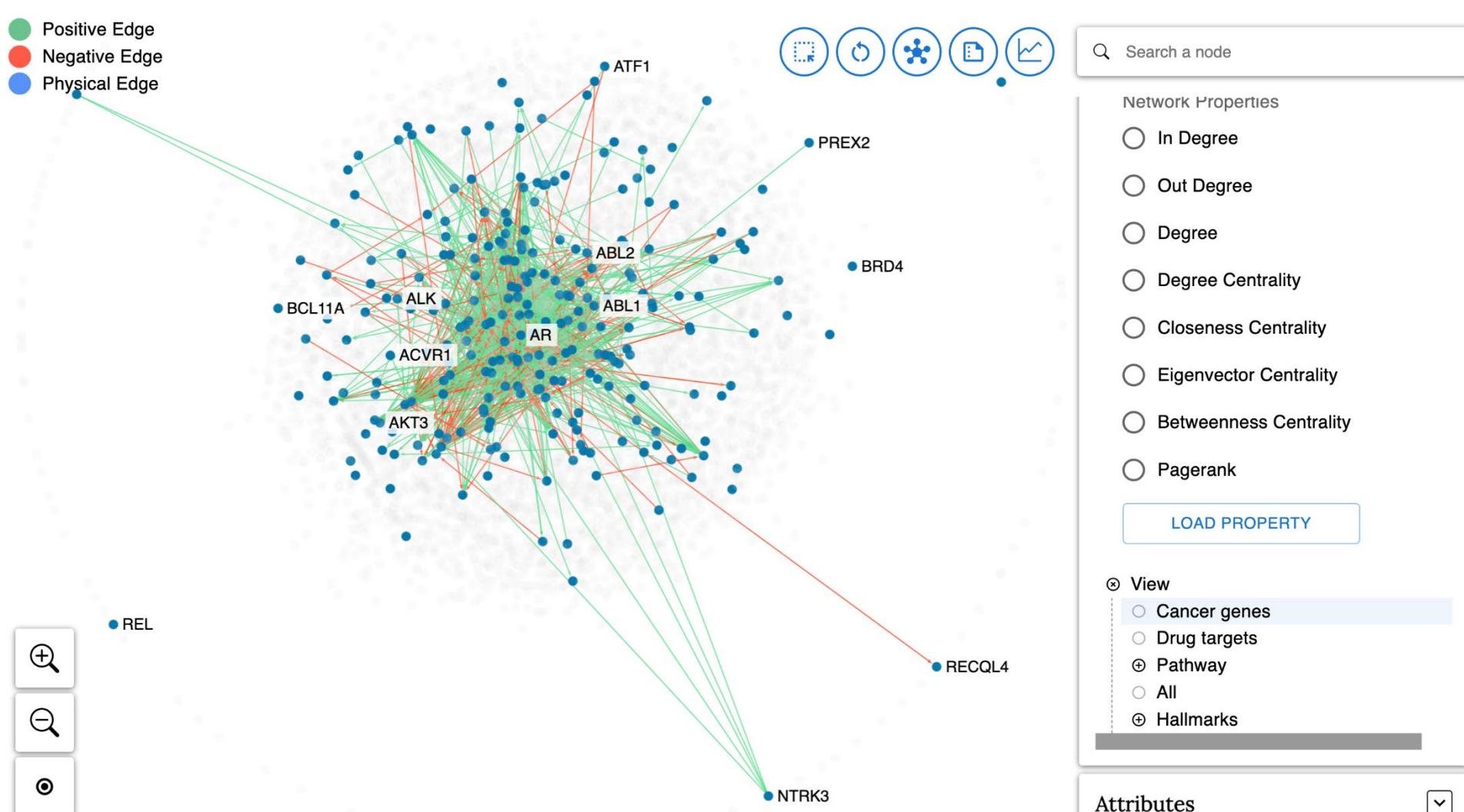


CancerVis

Effective Visualization of Human Cancer Signalling Network

Student: Wang Qiaochu

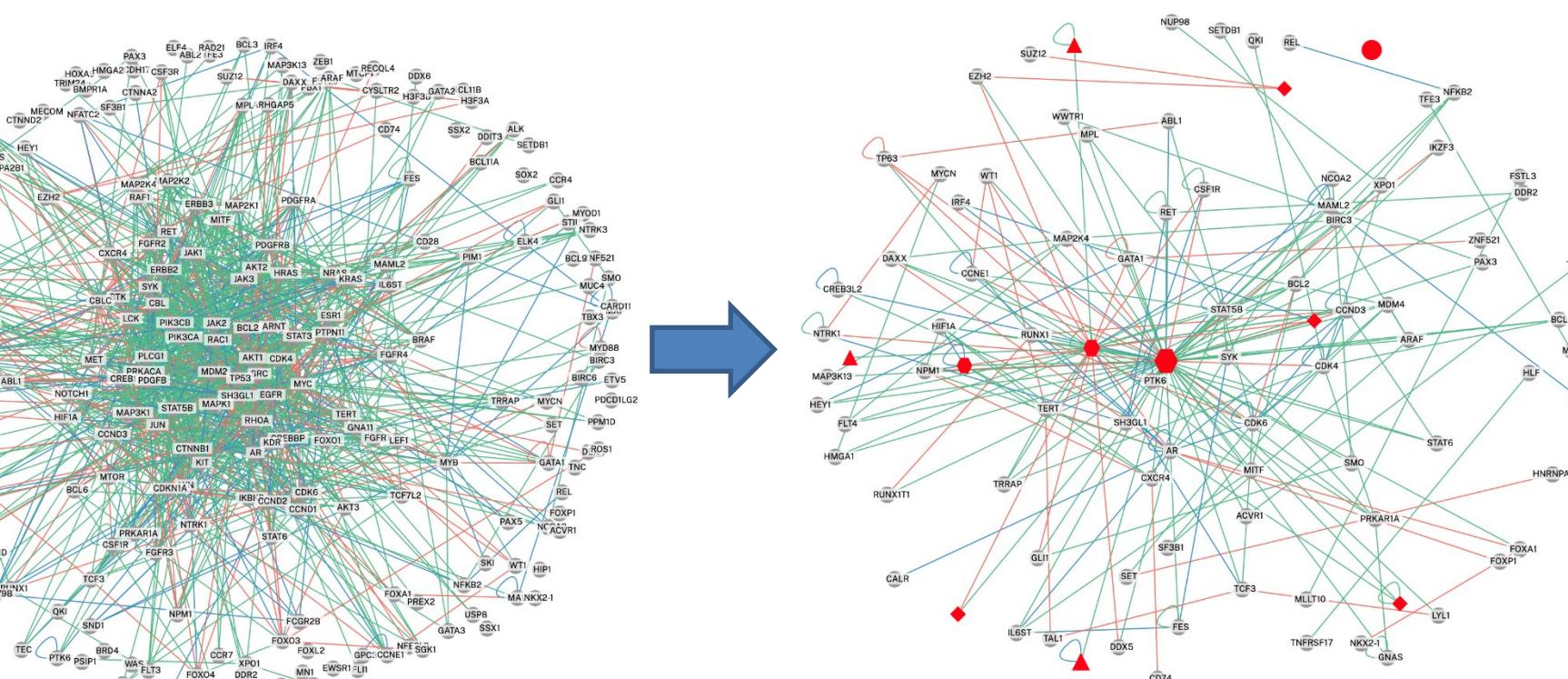
Supervisor: AP Sourav S Bhowmick



Project Objectives:

Cancer signaling network is a comprehensive map of molecular interactions. The application is an interactive tool that allows user to explore the network and its rich attributes. Multi-faceted visualization is adopted to provide different views of the graph according to node and edge properties, signaling pathways and drug target combinations. For more readable visualization, the application adopts a cognitive load-aware layout with motif simplification and allows user to adjust the level of detail.

Cognitive Load-Aware Visualization



Common patterns in
the network are
collapsed into glyphs
with meaningful
shapes.