

Associate Professor Kelly, Yiping Ke
School of Computer Science and Engineering (SCSE), NTU
ypke@ntu.edu.sg

❑ Research Focus

- ❑ Machine Learning and AI: graph representation learning, graph neural networks, brain network analysis
- ❑ Applications to neuroscience, cell biology, engineering design, etc.

❑ Brain Network Analysis

- ❑ Develop graph-based machine learning methods to analyse brain networks
- ❑ Early (and thus subtle) diagnosis and intervention of neurological and aging-related disorders/diseases

❑ Collaborative Potential

- ❑ RNA-protein interaction analysis and prediction
- ❑ Graph-based computational models for functional/activity prediction of RNAs
- ❑ Topological and representation learning of RNA molecules