



# 欢迎来到计算机科学国家重点实验室

2020级硕士生 冯晓妍

导师 George Barmpalias

2020-09-04

## 硕士一年级

- 上课

《计算机算法设计与分析》 《形式语言与自动机》 《模式识别与机器学习》 .....

- 学生活动

羽毛球、乒乓球、游泳、篮球.....

## 硕士二年级

- 关系网络的表征学习

节点分类、子图分类、链路预测.....



Image credit: [Medium](#)

## Social Networks

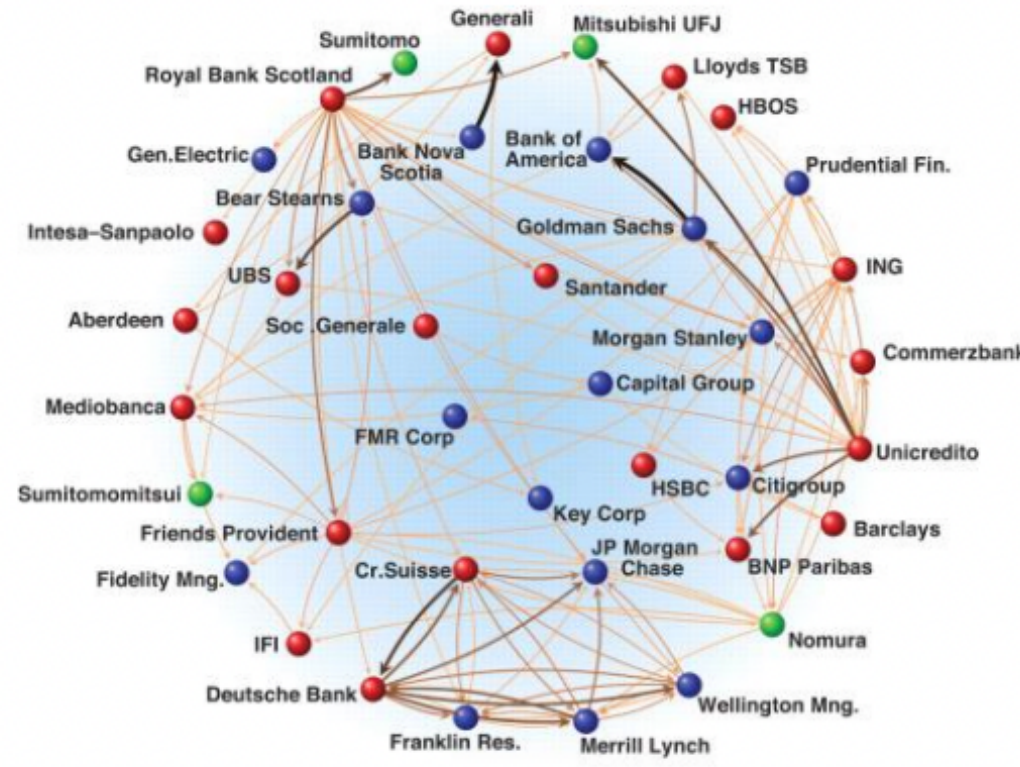


Image credit: [Science](#)

## Economic Networks



Image credit: [Lumen Learning](#)

## Communication Networks



## Citation Networks



Image credit: [Missoula Current News](#)

## Internet

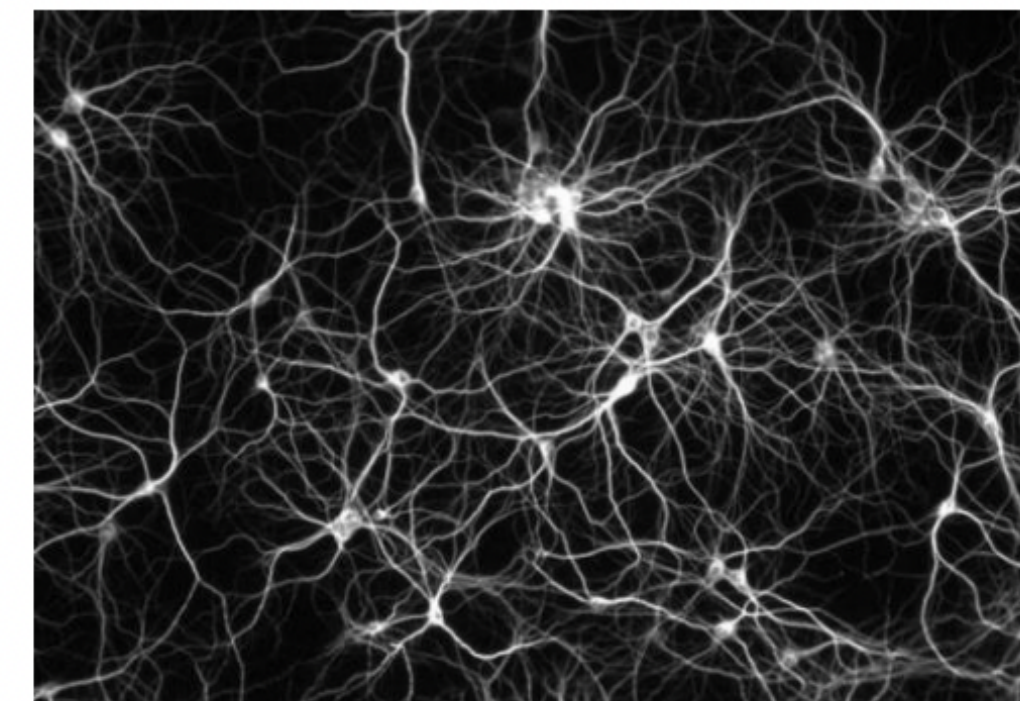
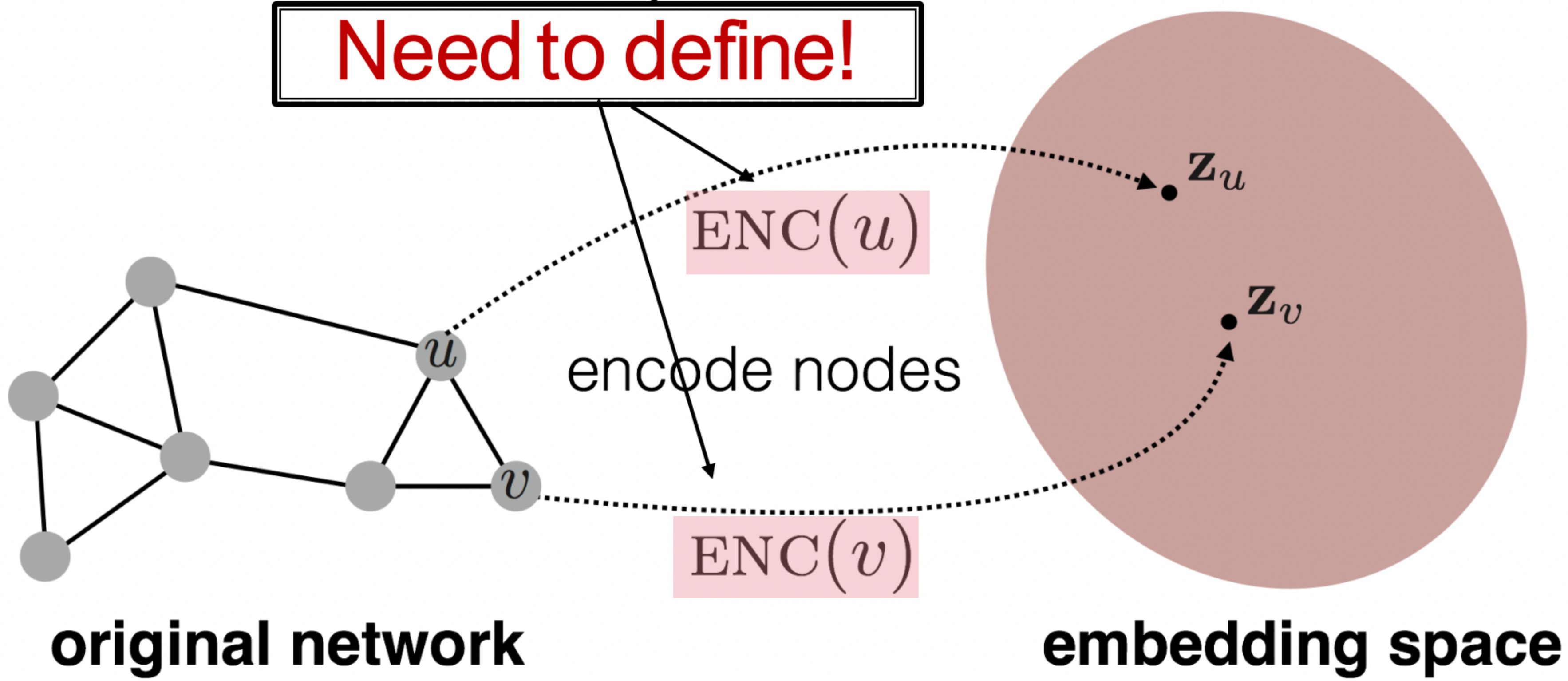


Image credit: [The Conversation](#)

## Networks of Neurons

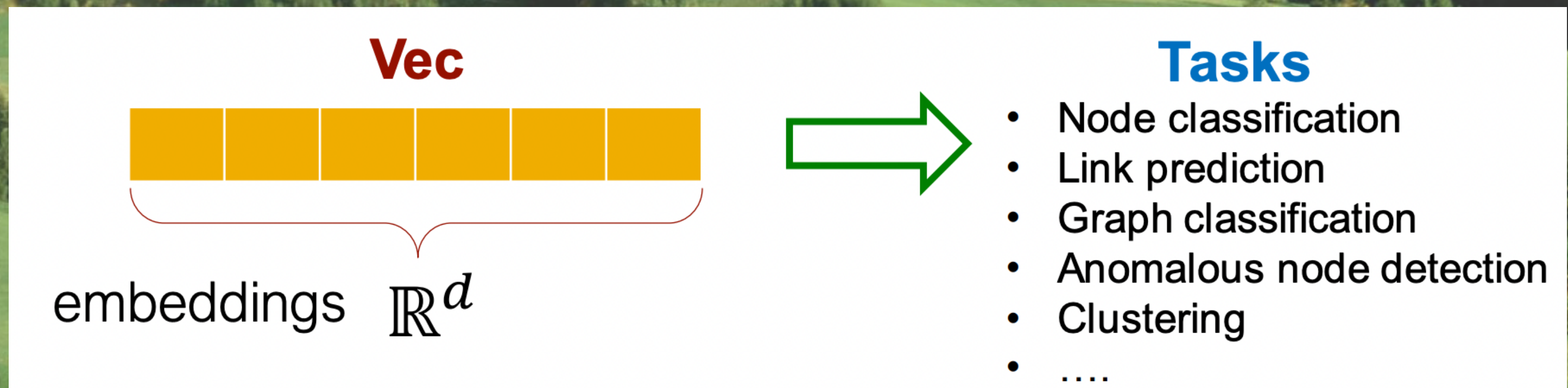
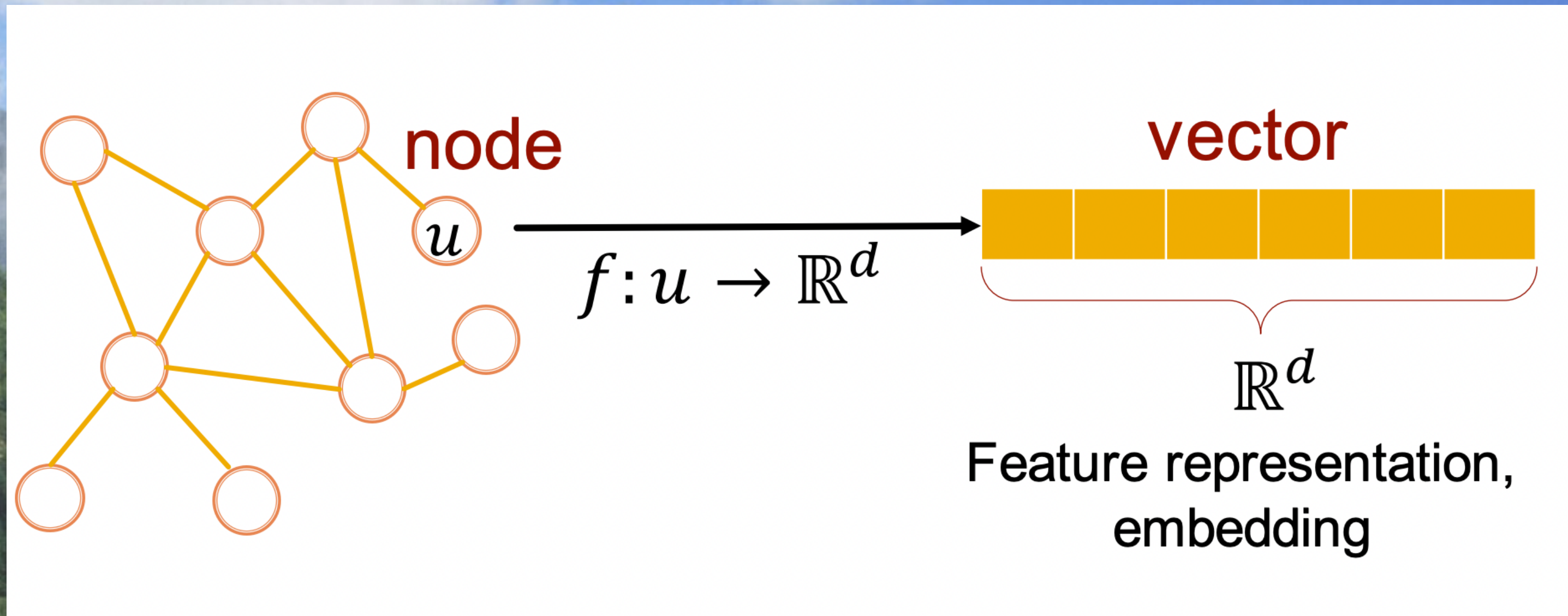
Goal:  $\text{similarity}(u, v)$  in the original network  $\approx \mathbf{z}_v^T \mathbf{z}_u$  Similarity of the embedding

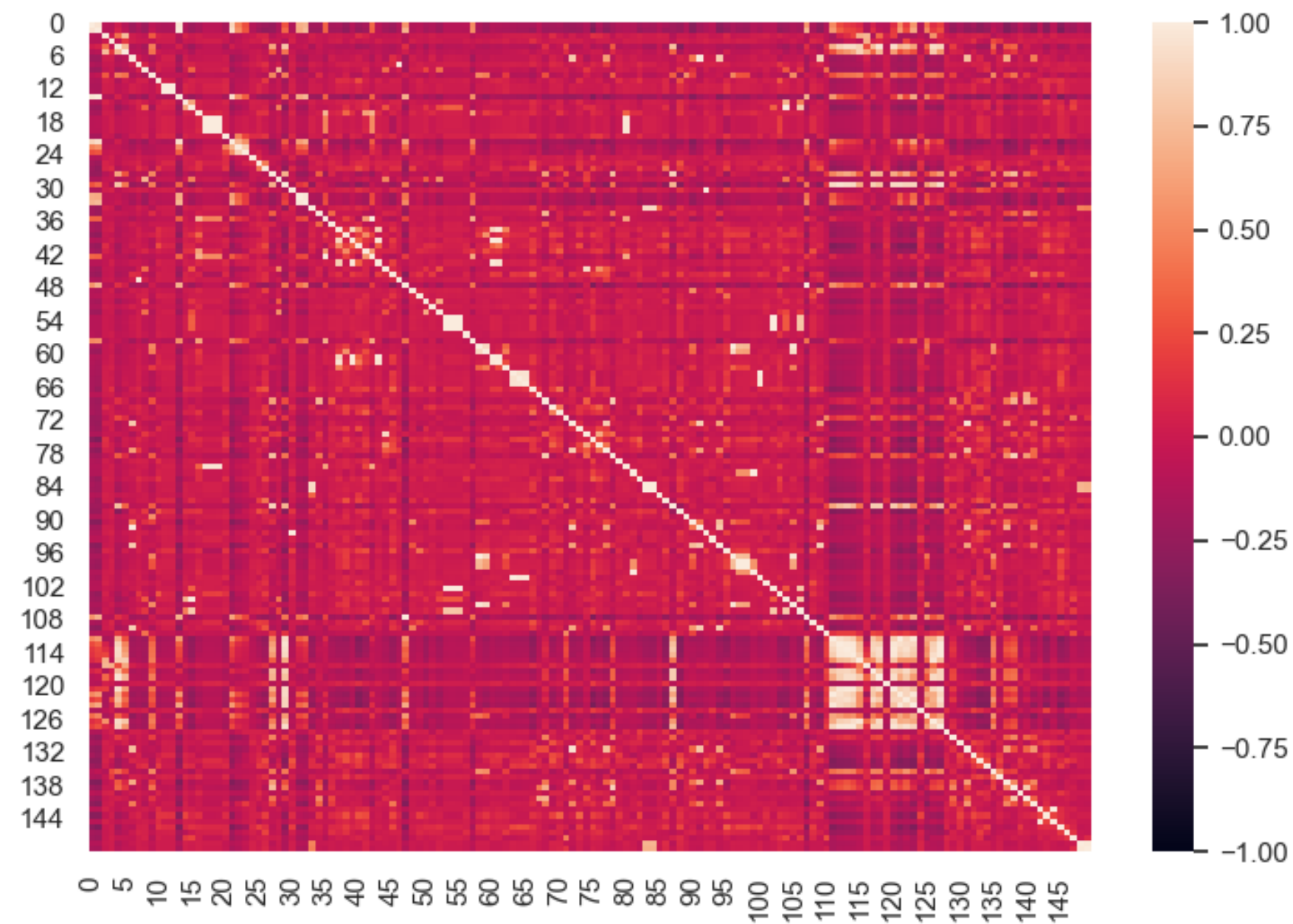
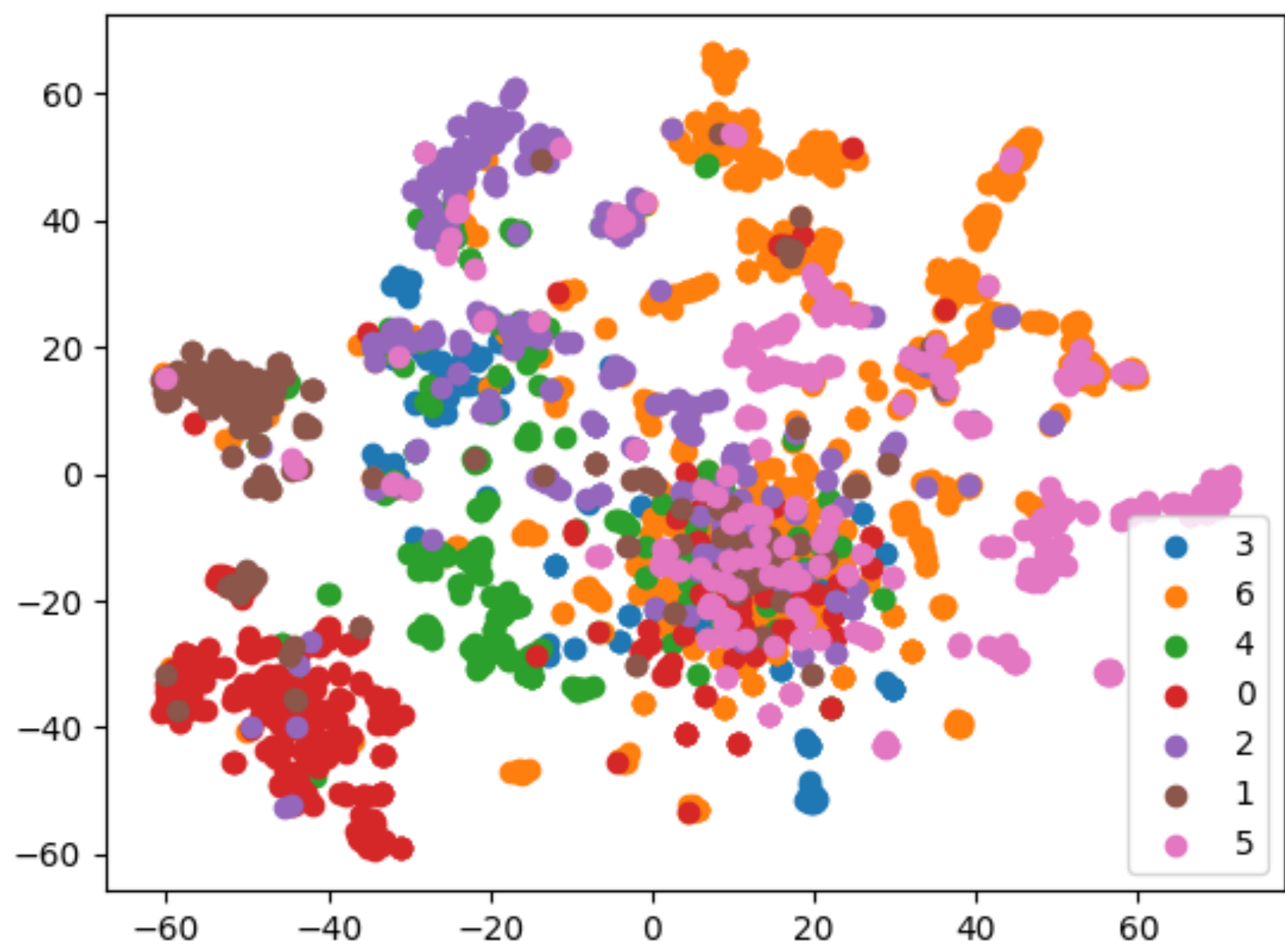
**Need to define!**



**original network**

**embedding space**





## 经验与建议

- 夯实基础：科研的出发点，就业/升学的硬通货
- 多发paper：毕业要求，就业/升学的硬通货
- 参加竞赛：提升自我，就业/升学的硬通货



谢谢聆听