我们需要掌握的一些背景知识：

1. 编程方面：

Python， 和python的一些库，例如numpy， scipy， networkx（图数据分析库，比较重要），pytorch（深度学习库，必须要掌握）

GNN开发的一些重要库 pytorch-geometric ，DGL, PyTorch Geometric Signed Directed(对Signed GNN的开发库)

1. 版本控制

Github

1. 排版语言

Latex，overleaf（基于latex的在线排版网站）

1. GNN 入门

* 多看b站的一些介绍
* 谷歌搜一些经典的tutorial 例如 distill上面的这个文章

<https://distill.pub/2021/gnn-intro/>

* 几篇经典文章：

GNN部分

1. GCN
2. GAT
3. Graphsage

SGNN 部分 （Signed GNN）

1. SGCN ( title: Signed Graph Convolutional Network)
2. SNEA (title: Learning Signed Network Embedding via Graph Attention)
3. SDGNN (title: SDGNN: Learning Node Representation for Signed Directed Networks)
4. SGCL (title: SGCL: Contrastive Representation Learning for Signed Graphs)
5. GS-GNN (title: Signed Graph Neural Network with Latent Groups)

可信GNN部分：

可解释部分：

1. 2019 GNNExplainer Generating Explanations for Graph Neural Networks
2. 2020 XGNN Towards Model-Level Explanations of Graph Neural Networks
3. 2021 Towards Self-Explainable Graph Neural Network
4. 2023 Explainability in Graph Neural Networks A Taxonomic Survey （综述很好，可以看看）
5. 2023 A Survey of Explainable Graph Neural Networks Taxonomy and Evaluation Metrics

公平部分：

1. 2023 Towards Label Position Bias in Graph Neural Networks
2. 2021 Tail-GNN Tail-Node Graph Neural Networks

一些可信GNN的综述：

1. A Comprehensive Survey on Trustworthy Graph Neural Networks: Privacy, Robustness, Fairness, and Explainability
2. 2022 Trustworthy Graph Neural Networks Aspects, Methods and Trends