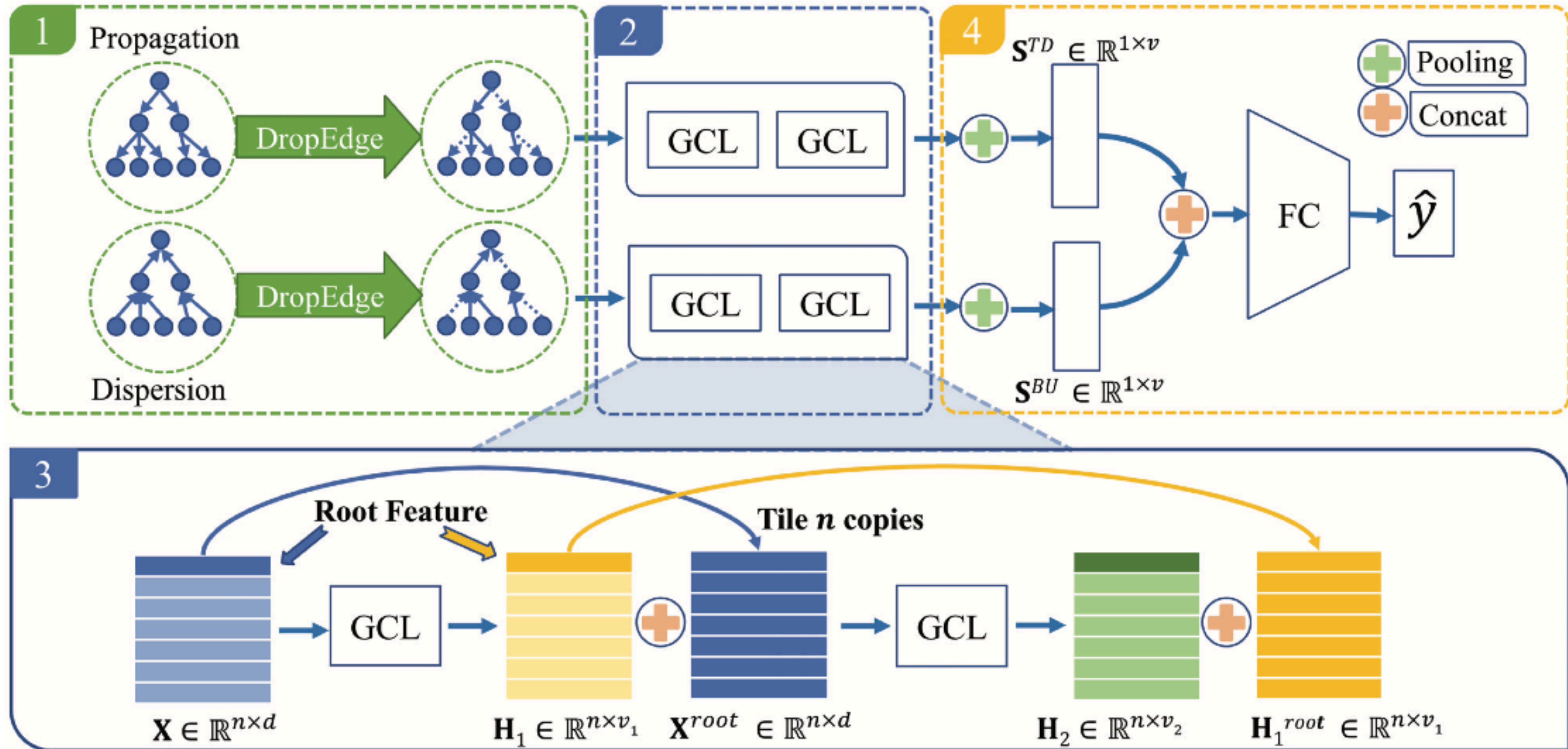


Methodology

Bi-GCN Rumor Detection Model



Methodology

Construct Propagation and Dispersion Graphs

- \mathbf{A} only contains the edges from upper nodes to lower nodes
- At each training epoch, get \mathbf{A}' via DropEdge to **avoid overfitting**
- Bi-GCN consist of two components, the **adjacency matrices** are different:
 - TD-GCN: $A^{TD} = \mathbf{A}'$
 - BU-GCN: $A^{BU} = \mathbf{A}'^T$
 - TD-GCN and BU-GCN adopt the **same feature matrix \mathbf{X}** .

