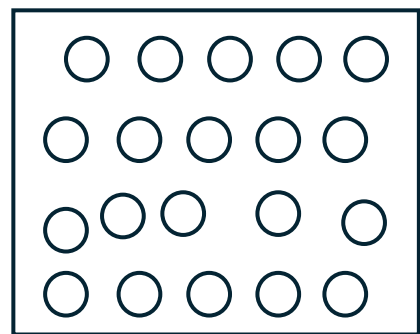


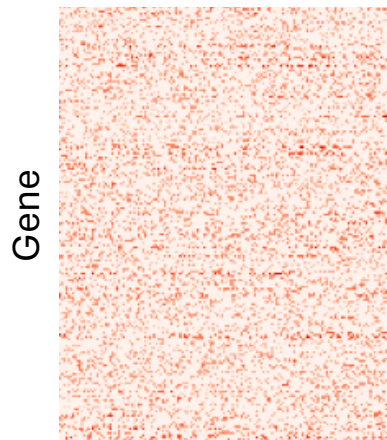
A Input: ST data

Spatial locations of cells



Gene expression matrix

Cell



B

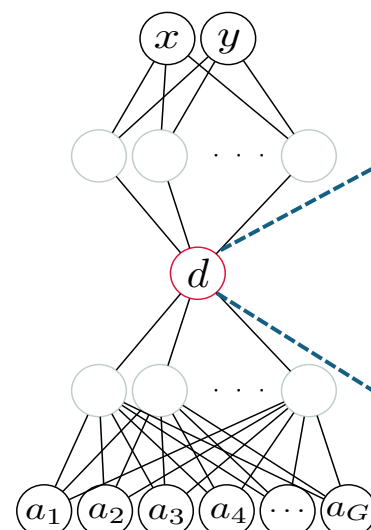
GLACIER



(Granger-Led Analysis of Cellular Isodepth and Expression Regulation)

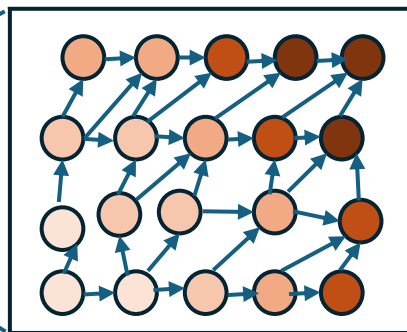
1. Create spatial DAG using topographic map of tissue slice

Input: spatial coordinates



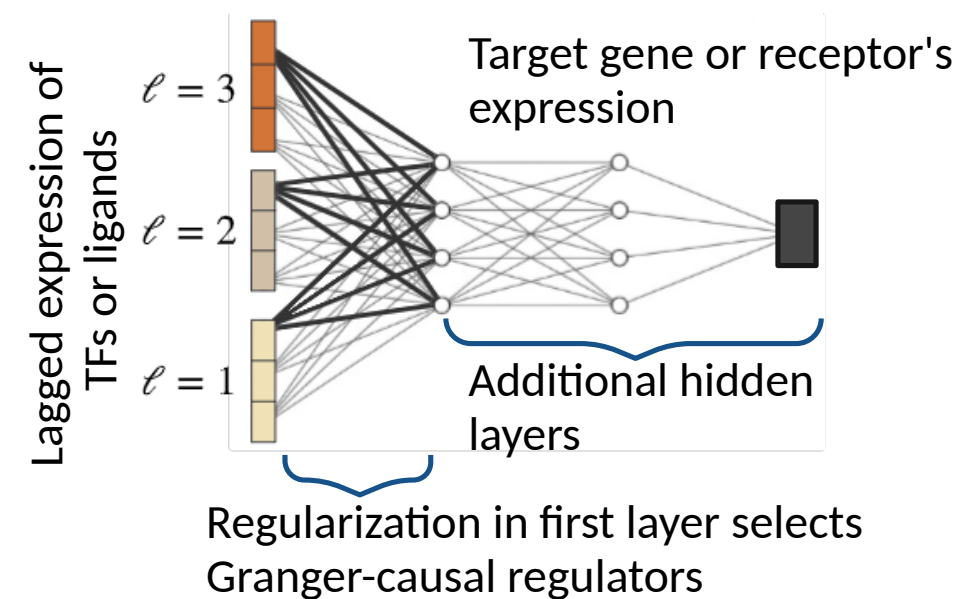
Output: gene expression

Spatial DAG



Isodepth

2. DAG-structured Granger causal inference



C

Output: cellular interactions

