

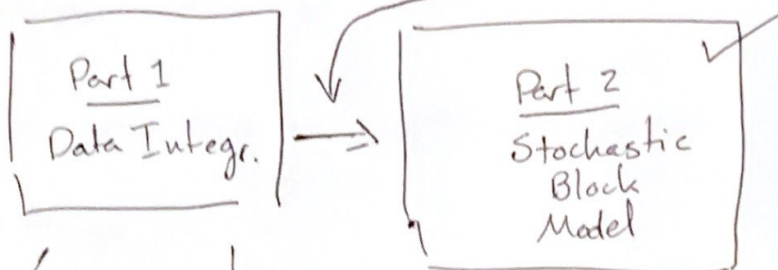
Pr. Chung Meeting

02/18/2020

Part 1B:

How to transform non-network data into network data?

Data Integrated SBM Project



Option 1:
Direct Integration
before network
is formed

Option 2:
Network integration
of multiple
networks

Option 1:
Non-parametric
SBMs
(e.g., graph-tool)

Option 2:
Parametric
SBMs
(e.g., sbmlogit)

Highly data dependent!
⇒ Look into the
structure of twin
data!

- Have simulated many settings including multigraph, weighted graph, and edge union SBM with graph-tool
- Probably should repeat these sims w/ sbm logit for comparison.

- Have explored degree-corrected and non-degree corrected variants
 - Have performed simulations to determine K
 - To Do: how to incorporate prior info?
- ⇒ Probably cannot.

- Have performed exploratory analysis on test data and learned model interpretation. ~~stat~~
- Still need to determine how to choose K !