

General Ideas of Generative Models for Text Mining

- **Model data generation: $P(\text{Data} \mid \text{Model}, \Lambda)$**
- **Infer the most likely parameter values Λ^* given a particular data set: $\Lambda^* = \operatorname{argmax}_{\Lambda} p(\text{Data} \mid \text{Model}, \Lambda)$**
- **Take Λ^* as the “knowledge”** to be mined for the text mining problem
- **Adjust** the design of the model to discover different knowledge