

Topic Analysis with Network Context

- The **context** of a text article can form a **network**, e.g.,
 - Authors of research articles may form **collaboration networks**
 - Authors of social media content form **social networks**
 - Locations associated with text can be connected to form a **geographic network**
- **Benefit of joint analysis** of text and its network context
 - Network imposes **constraints** on topics in text (**authors connected in a network tend to write about similar topics**)
 - Text helps **characterize** the content associated with each subnetwork (e.g., difference in opinions expressed in two subnetworks?)