Semester Summary

Wenda Qiu
Synonym-aware Set Expansion

• With Jiaming Shen
• Targeting KDD 2019
• Given seed synonym sets, discover more synonym sets
  • SetExpan: Find more entities
  • SynSetMine: Find synonym pairs
SetExpan Part

- Pattern grouping
  - "abbreviated as __ ", "abbreviation is __ ", ...
- Meta Pattern
  - Chicago→$CITY, Richard →$PERSON
- More balanced weights between entity and pattern
- Classifier-based pattern selection
- Better quality in selected patterns
- Performs much better when seed is a mixture of 2 “types”
- Working on Seed separation
SynSetMine Part

- Lack of training
- Working on distant supervision