Fall 2017 Summary

Qi Zhu
Integrating Local and Global Information for OpenIE

ReMine: A relation tuple mining framework based on phrasal segmentation

Previous systems only leverage local linguistic clue

   POS taggings, dependency parsing, ...

Data redundancy leads more convincing facts

   Incorporate global semantic measure into phrasal segmentation

   Combine strength of statistical features & representation learning

With Xiang, Jingbo, Frank, Yu Submitted to WWW18'
On-going research: Open Event Extraction

Manually Designed Rules / External Corpus

Embedding-Based Event Clustering
-protest
-entertainment
-disaster

Event Schema Induction (Pattern Generation)

Seed Events

E.g., Trump [Person] met Jinping Xi [Person] at the White House [Loc] on Sep 10th [Time].

With Chao&Frank, targeting SIGIR/KDD

Current status: plain sentence representation does not work, trying representation from reading comprehension
On-going research project

Semantic rich edge representation in HIN

With Yu, targeting KDD

Aim at real problem in Linkedin Economic Graph

Learn typed edge representation for HINs

A clean and easy to use framework to support downstream applications
Misc.

Study CS510 information retrieval and CS544 optimization

Research Assistant in Project: IAI-SEE

Help paper review

Summer Internship @Google:

Propose a new image feature for team Image Search

Study large scale distributed graph embedding systems