# Jiaying Lu

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## Research Interests

Graph Mining, Knowledge Base, Natural Language Processing.

## Education

**Emory University,** Atlanta, USA
*Thesis Advisor: Dr. [Carl Yang](#)*
Ph.D. in Computer Science                                                                            *Sep 2019 – Jun 2024 (Expected)*

**Beijing University of Posts and Telecommunications,** Beijing, China
M.E. in Electronics and Communication Engineering                              *Sep 2014 -- Mar 2017*
B.S. in Information Engineering                                                                      *Sep 2010 -- Jun 2014*

## Publications

- Hejie Cui, **Jiaying Lu**, Yao Ge, Carl Yang. "How Can Graph Neural Networks Help Document Retrieval: A Case Study on CORD19 with Concept Map Generation." *European Conference on Information Retrieval*. 2022.
- **Jiaying Lu**, and Carl Yang. "Open-World Taxonomy and Knowledge Graph Co-Learning." *Under Review*. 2021.
- **Jiaying Lu**, Xiangjue Dong, Carl Yang. "Weakly Supervised Concept Graph Generation through Task-Guided Graph Translation." *Under Review.* 2021.
- **Jiaying Lu**, and Jinho D. Choi. "Evaluation of Unsupervised Entity and Event Salience Estimation." *The International FLAIRS Conference Proceedings*. 2021.

## Research & Professional Experience

**Arizona State University,** Tempe, USA
*Visiting Student*                                                                                            *Aug 2018 – Jan 2019*
- Proposed a reinforcement learning model to generate distractors for multiple-choice visual questions (arXiv), advised by *Dr. [Yezhou Yang](#)*.

**Xiaomi,** Search Engine Group, Beijing, China
*NLP Engineer*                                                                                              *Jan 2018 – Jul 2018*
- Responsible for word segmentation, named entity recognition modules of the MIUI search engine.
- Developed a sequence tagging model for mining synonym pairs from unstructured text.

**Baidu,** Search Advertising Group, Beijing, China
*NLP Engineer*                                                                                              *Apr 2017 -- Dec 2017*
*NLP Engineer Intern*                                                                                  *Oct 2016 -- Mar 2017*
- Participated in core projects that empowered numerous business partners and increased the search engine Ads revenue by millions.
- Applied NLP techniques for dynamic Ad content generation, sentences similarity calculation.

## Services

Program Committee: ICML-IMLH'21, ICCV-CAVMD'21.
Reviewer: ICRA'19, IJCAI'20, BigData'21, CIKM'21, TKDE'21.
Conference Organizing: KDD'22 Web Developer.

## Skills

Coding Languages: Python, C&C++, Shell, HTML&CSS, JavaScript, Java, SPARK.
Machine Learning Tools: PyTorch, TensorFlow, DGL, NLTK, Gensim, scikit-learn.