

Jiaying Lu

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Research Interests

Graph Mining, Knowledge Base, Natural Language Processing.

Education

Emory University, Atlanta, GA 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

- **Jiaying Lu**, Xin Ye, Yi Ren and Yezhou Yang. "Good, better, best: Textual distractors generation for multi-choice VQA via policy gradient." *CVPR Workshop on Open-Domain Retrieval Under a Multi-Modal Setting*. 2022.
- 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

Amazon.com, Sunnyvale, CA USA

Applied Scientist Intern

May 2022–Aug 2022

- Multi-modal automated machine learning for large-scale product binary classification problems.

Arizona State University, Tempe, AZ USA

Visiting Student

Aug 2018 – Jan 2019

- Proposed a reinforcement learning model to generate distractors for multiple-choice visual questions, 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.