

Irene(Zihui) Li | Résumé

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Education

Yale University, USA

PhD Student (advised by Prof. Dragomir Radev), Aug. 2017 - Now
Research topics include natural language processing and graph neural networks; other interests are transfer learning, domain adaptation, summarization, general machine learning and NLP with clinical data (EHRs).

Yale University, USA

Masters in Philosophy (M.Phil), Aug. 2017 - Mar. 2020
Research topics include natural language processing and graph neural networks.

University College Dublin, Ireland

Master Degree of Science, Sept. 2014 - Aug. 2015
Majoring in Data Science. Thesis: *An Online Segmentation Method using Dynamic Time Warping.* **First Honor Degree**

Wuhan Polytechnic University, China

Bachelor Degree of Management (First Degree), Sept. 2010 - Jun. 2014
Bachelor's Degree of English Language and Literature (Secondary Degree) **Top 5%**

Experience

IBM Research Almaden, USA

Research Intern June 2019 - Aug 2019
Interned in the Scalable Knowledge Intelligence team, and worked on cross-lingual classification tasks for IBM SystemT.

Baidu Inc., Beijing, China

Research Intern (Natural Language Processing Group) June 2018 - Aug. 2018
Worked on text summarization with transfer learning.

Accenture AI TechLab, Ireland

Research Engineer (full-time) Apr. 2017 - Jul. 2017
Worked on applied deep learning models: time-series data analysis/ prediction using LSTM, representation learning on structural data, natural language processing on specific domain texts using CNN and attention-based model.

Adapt Data Center, Ireland

Senior Researcher Mar. 2016 - Feb. 2017
Research topic including recommendation systems, domain adaptation and NLP.

IBM Research Dublin, Ireland

Research Intern (Care Manager Team jointly with IBM Watson) June 2016 - Aug. 2016
Worked with deep learning models in the healthcare domain, developed CNNs to classify clinical sentences.

Japan Science and Technology Agency (JST), Ireland

Research Assistant (Big Data Group)

Jun. 2015 – May 2016

Research on Loopy Belief Propagation algorithm and implementations by Swift. Research on large-scale Graph Database algorithm (Gibbs Sampling) on Titan. Research on performance modeling by applying Deep Learning.

Publications

Irene Li, Michihiro Yasunaga, Yavuz Nuzumlali, Cesar Caraballo, Shiwani Mahajan, Krumholz, Harlan and Dragomir Radev. *A Neural Topic-Attention Model for Medical Term Abbreviation Disambiguation*. NeurIPS 2019 Machine Learning for Health Workshop (extended abstract)

Alexander Fabbri, **Irene Li**, Tianwei She, Suyi Li and Dragomir Radev. *Multi-News: a Large-Scale Multi-Document Summarization Dataset and Abstractive Hierarchical Model*. Proceedings of ACL, 2019 (long paper)

Irene Li, Alexander Fabbri, Robert Tung and Dragomir Radev. *What Should I Learn First: Introducing LectureBank for NLP Education and Prerequisite Chain Learning*. Proceedings of AAAI, 2019 (long paper)

Alexander Fabbri, **Irene Li**, Prawat Trairatvorakul, Yijiao He, Wei Tai Ting, Robert Tung, Caitlin Westerfield and Dragomir Radev. *TutorialBank: A Manually-Collected Corpus for Prerequisite Chains, Survey Extraction and Resource Recommendation*. Proceedings of ACL, 2018 (long paper)

Mark Hughes, **Irene Li**, Spyros Kotoulas and Toyotaro Suzumura. *Medical Text Classification using Convolutional Neural Networks*. Informatics for Health Conference, 2017

Professional Skills

Programming: Python, PyTorch, TensorFlow

Techniques: Natural Language Processing, Deep Learning, Neural Graph Networks, Summarization, Machine Learning, Transfer Learning

Languages

Chinese: Native

English: Fluent

Links

Google Scholar: <https://scholar.google.com/citations?user=JuYPjCMAAAAJhl=en>

Linkedin: <https://ie.linkedin.com/in/irenelizihui>

GitHub: <https://github.com/IreneZihuiLi>

Blog: ireneli.eu