

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

Wuhan Polytechnic University, China

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

Experience

Tencent AI Lab, Seattle, USA

Research Intern *June 2021 - Aug 2021*
Applying graph neural networks to solve AMR Coreference Resolution.

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 *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.

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.

Publications

Irene Li, Prithviraj Sen, Huaiyu Zhu, Yunyao Li and Dragomir Radev. *Zero-shot Instance-Weighting for Cross-lingual Text Classification*. RepL4NLP Workshop, ACL, 2021

Irene Li, Vanessa Yan, Tianxiao Li, Rihao Qu and Dragomir Radev. *Unsupervised Cross-Domain Prerequisite Chain Learning using Variational Graph Autoencoders*. (Short) ACL, 2021

Irene Li, Alexander Fabbri, Swapnil Hingmire, and Dragomir Radev. *R-VGAE: Relational-variational Graph Autoencoder for Unsupervised Prerequisite Chain Learning*. COLING, 2020

Irene Li, Yixin Li, Tianxiao Li, Sergio Alvarez-Napagao, Dario Garcia-Gasulla, Toyotaro Suzumura. *What are We Depressed about When We Talk about COVID-19: Mental Health Analysis on Tweets Using Natural Language Processing*. SGAI International Conference on Artificial Intelligence, 2020

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

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

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

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*. ACL, 2018

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

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