

# Irene(Zihui) Li | Résumé

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## Education

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### 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).

### 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

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### IBM Research Almaden, USA

*Research Intern* *June 2019 – Now*  
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.

### 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, 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

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**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

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**Programming:** Python, PyTorch, TensorFlow

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

## Activities

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**Book Translation:** Dr. Joshua Eckroth *AI Blueprints: How to build and deploy AI business projects*. O'Reilly Media 2019. English to Chinese translation with Xiaohu Zhu.

**Book Translation:** Itay Lieder, Yehezkel Resheff, Tom Hope. *Learning TensorFlow: A Guide to Building Deep Learning Systems*. O'Reilly Media 2017. English to Chinese translation with Xiaohu Zhu.

## Languages

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**Chinese:** Native

**English:** Fluent

## Links

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**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](http://ireneli.eu)