

Linyi Yang (Third-Year PhD Student)

Insight Centre, University College Dublin

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Technical Skills

Python, PyTorch, Tensorflow: Using Python and deep learning frameworks to develop several deep learning projects on Natural Language Processing (NLP).

Java, JavaScript, Html, Ajax, CSS: Building the project named daily report management system with client-server mode of java and GUI.

SQL, JDBC, Hadoop: Developing a Java project with Hadoop for the NYT taxi competition.

Operating Systems: Linux (Working as the administrator of the lab server)/MacOS/Windows

Education

2017-2021, **Ph.D. Financial Data Mining for Business Intelligence**, Insight Centre, University College Dublin, Ireland. **Supervisor: Prof. Barry Smyth; Dr. Ruihai Dong** (Expected to graduate in 2021)

2016-2017, **MSc Computer Science**, University College Dublin, Ireland

Core modules: Using Text Analytics to Discover Meaning, Data Mining, Advanced Machine Learning, Data Science in python.

2012-2016, **Bachelor Software Engineering**, Harbin Engineering University, Harbin, China (985 project) GPA: Top 20% (3.6/4)

Publications (First Author)

1. HTML: Hierarchical Transformer-based Multi-Task Learning for Volatility Prediction (**Core: A*, 19%**) Published on The Web Conference (WWW), Taiwan, 2020
 2. Leveraging BERT to Improve the FEARS Index for Stock Forecasting (**39%**) Published on the proceedings of FinNLP Workshop at IJCAI, Macau, 2019
 3. Explainable Text-Driven Neural Network for Stock Prediction (**Best Paper Nominated: 3/210(1.5%)**) Published on IEEE International Conference on Cloud Computing and Intelligence Systems, Nanjing, 2018
 4. Multi-level Attention-Based Neural Networks for Distant Supervised Relation Extraction Published on Irish Conference on Artificial Intelligence and Cognitive Science (AICS), Dublin, 2017
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Certification

- **Neural Networks and Deep Learning** (Coursera)
Certification Date: Oct 2017 – Present License RBCA626EUCBD
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Industrial Experience

May 2017-September 2017, Research Assistant, Insight Centre, UCD, Ireland

Design and Implementation of the Relation Extraction System

- Building a new structure of neural network of natural language processing on the task of relation extraction, and the experimental results significantly outperformed the state-of-the-art models at the moment.

June 2015-September 2015, Internship, Neusoft Corporation, China

Design and Implementation of Customer Relationship Management System

- Providing me with a deeper understanding on Java coding frameworks. I learned how to keep logic and design separate, while maintaining efficiency.
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Honors and Awards

Awards

- Second Scholarship awarded by university (2012)
 - Third Scholarship awarded by university (2013)
 - Excellent thesis awarded by university (2016)
 - Best Paper Nominated (2018)
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Personal Interests

Reading blogs, learning interesting modules through GitHub, Sport.
