CONGCONG WANG

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ABSTRACT

I am a third-year PhD student in the School of Computer Science, University College Dublin, under the supervision of Dr. David Lillis. My PhD research focuses on exploring computational techniques to process big crisis data on social media, which aims to help humanitarian advocates gain situational awareness and actionable information to improve their decision-making processes. Aside from research, I am interested in implementing and open sourcing projects that I feel hard to get from online.

EDUCATION

University College Dublin   *September 2018 - Present*
Ph.D. with Scholarship from the School of Computer Science PG Grant
School of Computer Science and Informatics (CSI)

University College Dublin   *September 2017 - July 2018*
4th Year of B.Sc. (Hons.) Software Engineering, CSI   First Class Honors
Relevant Coursework: Data Analytics, Machine Learning, Computing Performance Evaluation, Contemporary Software Development, Operating Systems, Computer Network, Computer Security.
Thesis: Evaluating Recommender Systems (A Grade)

Beijing University of Technology, China   *September 2014 - July 2017*
1st - 3rd Years of B.Sc. (Hons.) Software Engineering, Beijing-Dublin International College (BDIC)
Relevant Coursework: Object-oriented Programming, Software Project Development, Computer Vision, Distributed System, Database Management, Web Development, Data Structures and Algorithms.

SKILLS

Research	NLP, Information Retrieval, Machine Learning, Social Media Analytics
General	Python (preferred), Java, Web Application, Linux, DevOps
Languages	Mandarin (First), English (Fluent)

WORK EXPERIENCE

Teaching Assistant   *September 2015 - June 2017*
Beijing-Dublin International College, China
I was the seminar leader on the Information Retrieval course, responsible for support and assessment of 80 students.

Programming Instructor (Python)   *September 2015 - June 2016*
YiXinXian (startup) Technology Education Company, China
I was a Python instructor for one year, my duties included writing tutorials and assessing students. I adopted the use of funny storytelling to explain concepts to students.

RESEARCH PROJECTS

Covid19-search   *Mar, 2020*
Work from home, Dublin
a retrieval system for searching insights from covid-related academic articles.

TREC Incident Streams Participation   *January 2019 - September 2019*
National Institute of Standards and Technology, U.S.
I submitted several runs of finding crisis-related actionable tweets and estimating their criticality using ensemble learning techniques. Some of the runs achieve competitive performance compared to other groups.

Research Assistant   *December 2016 - June 2017*
China Center for Information Industry Development, China
This is a group project with my peers. We developed a library indexing and borrowing system. This was used for book indexing construction and research on Chinese-based book items retrieval techniques. This project finally won 2nd place prize for the China Software Cup.

PUBLICATIONS

Congcong Wang, and David Lillis. UCD-CS at W-NUT 2020 Shared Task-3: A Text to Text Approach for COVID-19 Event Extraction on Social Media. In Proceedings of the 2020 EMNLP Workshop W-NUT: The 6th Workshop on Noisy User-generated Text, November 19, 2020.

Congcong Wang, Paul Nulty, and David Lillis. A Comparative Study on Word Embeddings in Deep Learning for Text Classification. In Proceedings of 4th International Conference on Natural Language Processing and Information Retrieval (NLPIR 2020), Seoul, Korea.

Congcong Wang, David Lillis. Classification for Crisis-Related Tweets Leveraging Word Embeddings and Data Augmentation. In Proceedings of the Twenty-Eighth Text REtrieval Conference (TREC 2019), Gaithersburg, MD, 2020.

Another conference paper was submitted and under review and one research project is under working.

ENGINEERING PROJECTS.

- **TTT**: A package for fine-tuning HuggingFace's Transformers with TPUs, written in Tensorflow2.0, Sep, 2020.

- **Data-Explorer**: A lightweight web application for data explanatory analysis August, 2020.

- **Autocoder**: a basic and simple tool for code auto completion (blog and source code releases), Jun, 2020.

- **Feeder-Bot**: a tool for automating updates of RSS feeds (e.g., arxiv) to users' receiver platforms (e.g., Twitter), Mar, 2020.

- **MLP-TC**: machine learning package for text classification. Dec, 2019.

MISC.

W-NUT EMNLP 2020 Reviewer.