

# CONGCONG WANG

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## ABSTRACT

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I am a PhD candidate 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 can help humanitarian advocates gain situational awareness and actionable information to improve their decision-making processes.

## EDUCATION

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### 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: Data Analytics, Machine Learning, Computing Performance Evaluation, Contemporary Software Development, Operating Systems, Computer Network, Computer Security

## SKILLS

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**Research** NLP, IR, Machine Learning, Social Media Analytics

**General** Python, Java, Web Building, Linux, DevOps

**Languages** Mandarin (First), English (Fluent)

## WORK EXPERIENCE

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### 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.

## PROJECTS

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### **Covid19-search<sup>1</sup>**

*Mar, 2020*

#### **Work from home, Dublin**

I built 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

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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 paper was submitted and under Review.

## MISC.

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In my spare time, I like cooking and video blogging. In addition, I maintain a personal website for writing blogs and sharing my research updates.

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<sup>1</sup><https://www.thinkingso.cf/>