

# Guoqing LUO

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## EDUCATION

### Wuhan University

Wuhan, China

B.S in Computer Science and Technology, School of Computer Science      Sept. 2017—Jun. 2021(expected)

• Cumulative GPA: 3.75/4.00 (89.1/100)    3.84/4.00 (WES)

• Prize: **National Second Prize** (Top 5% of 42992 teams) in China Undergraduate Mathematical Contest in Modeling

### Harvard University

Boston, USA

Summer School Student

July 2018—Aug. 2018

• Course: “Developing Cross-Platform Mobile Apps With Xamarin” (36 academic hours)

GPA: 4.00/4.00

## PUBLICATIONS

Guoshun Nan, **Guoqing Luo**, Sicong Leng, Yao Xiao, Wei Lu, “*Speaker-Oriented Latent Structures for Dialogue-Based Relation Extraction*” (submitted to ACL 2021)

**Guoqing Luo**, Jiaxin Pan, Min Peng, “*RDSGAN: Rank-based Distant Supervision Relation Extraction with Generative Adversarial Framework*” [[Arxiv](#)] (submitted to NAACL 2021)

Guoshun Nan, Zhijiang Guo, **Guoqing Luo**, Yuxiang Zhou, Wei Lu “*Learning Latent Structures for Document-Level Relation Extraction*” (submitted to TKDE 2021)

## RESEARCH EXPERIENCE

### StatNLP, Singapore, Singapore University of Technology and Design

Upper Changi, Singapore

Research Intern, Advisor: Associate Professor **Wei LU**

Jun. 2020—Present

#### Speaker-Oriented Latent Structures for Dialogue-Based Relation Extraction

- Propose a novel model for inducing speaker-oriented latent structures to alleviate the *entangled logic* issue in Dialogue-Based Relation Extraction (DiaRE) tasks.
- Conduct quantitative and qualitative experiments on several public datasets to show the effectiveness of our approach, demonstrating the importance of capturing the speaker-related information in such DiaRE tasks.

### WHU NLP Lab, Wuhan University

Wuhan, China

Research Intern, Advisor: Professor **Min PENG**

Dec. 2019—Jun. 2020

#### RDSGAN: Rank-based Distant Supervision Relation Extraction with Generative Adversarial Framework

- Proposed a novel generative neural framework which 1) learned the distribution of true positive instances and 2) automatically generated valid instances to provide a clean dataset for distant supervision relation extraction.
- Trained the discriminator to learn the distribution of true positive instances, excluding false positive instances via adversarial training; Trained the generator to generate instances more similar to real ones.
- Ranked all the instances in a sentence bag; Selected instances conforming to the distribution of true positive instances via rank-based distant supervision addressing the false positive problem.

### School of Computer Science, Wuhan University

Wuhan, China

Research Intern, Advisor: Associate Professor **Qin ZOU**

Feb. 2018—Feb. 2019

*Human Traffic Monitoring Based on Deep Learning and Video Analysis (Team Leader)*

Funded by **University Students' Innovation and Entrepreneurship Contest Program**

- Collected numerical sample data and used TensorFlow API to construct a CNN deep learning model.
- Input collected samples into CNN for feature extraction; After pooling procedures, input features extracted by convolutional layer into RNN; Output the results of classifier, trained and improved the model with big data.

## PROGRAM EXPERIENCE

### Shenzhen Sunline Tech Co., LTD Internship

Shenzhen, China

#### Intern Software Engineer

Jul. 2019—Aug. 2019

- Learned knowledge about knowledge graph, data visualization, the Louvain Algorithm and web crawler.
- Used Python to crawl the data of a thousand-person community, established relationships between community

members, and organize all the data into a form of undirected graph using the Louvain Algorithm.

- Used Networkx Python and neo4j to visualize relationships among bank staff; Used the PageRank Algorithm to find and output the data of the most important persons in the wider community.

#### **International Volunteer Program, Nil Manel Foundation**

Balapitiya, Sri Lanka

##### ***Volunteer Team Leader***

Feb. 2019—Feb. 2019

- Taught kindergartners about language arts and fine arts for 8 hours every day.
- Took care of orphan elephants; Collected and saved sea turtle eggs.

#### **Cambridge University Winter Development Program**

Cambridge, UK

##### ***Student Leader***

Jan. 2018—Feb. 2018

- Learnt Relevant Course: Psychology and Economics, Understanding of modern marketing communications, Introduction to EU Law and Brexit, Understanding of Creativity, Liszt at the Opera, etc
- Gave final group presentation “Introduction to Reincarnation” and rank 2<sup>nd</sup> of all 8 teams.

### **AWARDS & SCHOLARSHIPS**

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<i>Excellent Student Scholarship (Rank: 30/367)</i> , Wuhan University	Oct. 2020
<i>S. I. Komarova Scholarship for academic excellence</i> , Valeon Scholarship program	July 2020
<i>Honorable Mention</i> , ICM of Consortium for Mathematics and Its Applications	Apr. 2020
<i>First Prize (Top 3%)</i> , Translation & Interpreting Contest of Hubei Province	Apr. 2020
<i>National Second Prize (Top 5% of 42992 teams)</i> , China Undergraduate Mathematical Contest in Modeling	Nov. 2019
<i>Excellent Student Scholarship (Rank: 18/367)</i> , Wuhan University	Oct. 2019
<i>Excellent Student Scholarship (Rank: 25/367)</i> , Wuhan University	Sept. 2018

### **PROFICIENCY**

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**Language:** Mandarin (native), English (professional proficiency)

**Programming:** Python, C++, C, C#, MATLAB, Lingo

**English Level:** TOEFL: 103 (Speaking 25) GRE: 321+3.5

**Deep Learning Framework:** Pytorch / Keras