# Guoqing LUO

Mobile Phone: (+86)153-0862-7530      E-mail: frankluo007@gmail.com

No.299, Bayi Road, Wuhan University, Wuhan   430072,China

## EDUCATION

**Wuhan University**                                                                    **09/2017—now**
Bachelor of Engineering, Computer Science and Technology, School of Computer Science      **Expected 2021**
English Level:   CET-4: 632   TOEFL:103      GRE:325+3.5
General GPA:                    Grade: Senior

## RESEARCH EXPERIENCE

**School of Computer Science, Wuhan University**                                          **02/2018---02/2019**
**Project: Human Traffic Monitoring Based on Deep Learning and Video Analysis (team leader)**
Funded by *University Students' Innovation and Entrepreneurship Contest Program*
Advisor: Associate Professor **Qin ZOU**

- Collect numerical sample data and use TensorFlow API to construct a CNN deep learning model.
- Input collected sample data into CNN for feature extraction, and after pooling procedure, input features extracted by convolutional layer into RNN and output the results of classifier, train and improve the model with big data.

**WHU NLP Lab, Wuhan University**                                                         **12/2019---06/2020**
**RDSGAN: Rank-based Distant Supervision Relation Extraction with Generative Adversarial Framework** (under review)
Advisor: Professor **Min PENG**

- A novel generative neural framework which learns the distribution of true positive instances and automatically generates massive valid instances to provide a clean dataset for distant supervision relation extraction.
- Firstly, we train the discriminator to learn the distribution of true positive instances excluding false positive instances via adversarial training, then the generator is trained to generate instances more similar to real ones.
- Secondly, we rank all the instances in a sentence bag and select instances conforming to the distribution of true positive instances via rank-based distant supervision, which addresses the false positive problem.

**StatNLP, Singapore, Singapore University of Technology and Design**                     **06/2020---now**
**Dynamic Latent Structures for Real-Time Dialogue-Based Relation Extraction** (ongoing)
Advisor: Associate Professor **Wei LU**

- Extract dynamic latent structure based on Hard Kumaraswamy Distribution, employ a relaxed form of $L_0$ regularization to promote compact latent beliefs.
- Collect numerous datasets of dialogues like doctor-patient dialogues, TV series dialogues, process data into the form of short conversations to deal with temporal drift.

## PROGRAM EXPERIENCE

**Harvard University Summer School Program**                                              **Boston, America**
*Summer School Student*                                                                   **07/2018---08/2018**

- Learn "Developing Cross-Platform Mobile Apps With Xamarin" for 36 units.
- Successfully complete individual programming project using both C# and Xamarin to create an app for the usage of local transportation, give the final presentation of my work and get an A.

**Shenzhen Sunline Tech Co., LTD Internship**                                             **Shenzhen, China**
*Intern Software Engineer*                                                                **07/2019---08/2019**

- Learn knowledge about knowledge graph, data visualization, Louvain Algorithm and web crawler.
- Use Python to crawl data of a big community and the relationships between each two people, organize all the data into a form of undirected graph using Louvain Algorithm.
- Use Networkx Python and neo4j to visualize relationships among bank staff, use PageRank Algorithm to find and output the data of the most important persons in the big community.

## HONORS & SCHOLARSHIPS

*Excellent Student Scholarship* **(Rank: 25/367)**, Wuhan University                       07/2018

*Excellent Student Scholarship* **(Rank: 18/367)**, Wuhan University                                    10/2019
*National Second Prize* **(Top 5% of 42992 teams),** China Undergraduate Mathematical Contest in Modeling   11/2019
*First Prize* **(Top 3%)**, Translation & Interpreting Contest of Hubei Province                          04/2020
*Honorable Mention,* ICM of Consortium for Mathematics and Its Applications                               04/2020
*S. I. Komarova Scholarship for academic excellence,* Valeon Scholarship program                          07/2020

## PROFICIENCY

**Deep Learning Framework: Pytorch / Keras**

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