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:
• Prize: ***National Second Prize*** (Top 5% of 42992 teams) in China Undergraduate Mathematical Contest in Modeling
• Relevant Course: Operating Systems, Principle of Compilers, Pattern Recognition, Computer Graphics, Introduction to Artificial Intelligence, Computer Organization, Computer Networks, Data Structure, etc

Harvard University **Boston, USA**
Summer School Student **July 2018—Aug. 2018**
• Course: "Developing Cross-Platform Mobile Apps With Xamarin" for 36 academic hours GPA: **4.00/4.00**
• Completed individual programming project using both C# and Xamarin to create an app for local transportation

PREPRINTS

Guoqing Luo, Jiaxin Pan, Min Peng, "*RDSGAN: Rank-based Distant Supervision Relation Extraction with Generative Adversarial Framework*" [Arxiv] (in submission)

RESEARCH EXPERIENCE

StatNLP, Singapore University of Technology and Design **Jun. 2020—Present**
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.
- Pre-process dialogues such as TV Series dialogues into windows of turns to deal with temporal drift.

WHU NLP Lab, Wuhan University **Dec. 2019—Jun. 2020**
RDSGAN: Rank-based Distant Supervision Relation Extraction with Generative Adversarial Framework
Advisor: Professor **Min PENG**

- Proposed a novel generative neural framework which 1) learns the distribution of true positive instances and 2) automatically generates 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, then the generator was trained 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 **Feb. 2018—Feb. 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**

- Collected numerical sample data and used TensorFlow API to construct a CNN deep learning model.
- Input collected sample data into CNN for feature extraction; After the pooling procedure, 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 **July. 2019—Aug. 2019**

- Learnt knowledge about knowledge graph, data visualization, the Louvain Algorithm and web crawler.
- Used Python to crawl data of individuals in a community, analyze relationships between pairs of individuals; organized all the data into an undirected graph form using the Louvain Algorithm.
- Use NetworkX Python and Neo4j to visualize relationships among bank staff; used the PageRank Algorithm to find and output the data of the most important people in the community.

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, The Art of Give & Take.
- Gave final group presentation "Introduction to Reincarnation" and rank 2nd of all 8 teams.

AWARDS & SCHOLARSHIPS

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

PROFICIENCY

Language: Mandarin, English (**TOEFL**:103 **GRE**:321+3.5 **IELTS**:6.5)
Programming: Python, C/C++, C#, MATLAB, Lingo, HTML, Javascript
Platform &Toolkits: Linux, Pytorch, Keras, Tensorflow, LaTex, MySQL, Git
Multimedia: Adobe Photoshop, Premiere Pro, Audition, After Effects, Acrobat DC