

Tianyu Gao

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Education

Tsinghua University

B.E., COMPUTER SCIENCE AND TECHNOLOGY

- Member of the Student Union and the Student Association of Science and Technology.

Beijing, China

Aug. 2016 - Present

Publications

FewRel 2.0: Towards More Challenging Few-Shot Relation Classification. Tianyu Gao, Xu Han, Hao Zhu, Zhiyuan Liu, Peng Li, Maosong Sun, Jie Zhou.

Hong Kong, China

TO APPEAR IN PROC. OF EMNLP 2019

Nov. 2019

- Investigate two challenges in few-shot learning: domain adaptation and none-of-the-above detection.
- Propose baselines to tackle the above two challenges.
- Release the upgrade version of FewRel, the largest annotated relation classification dataset.

OpenNRE: An Open and Extensible Toolkit for Neural Relation Extraction. Xu Han, Tianyu Gao, Yuan Yao, Deming Ye, Zhiyuan Liu, Maosong Sun.

Hong Kong, China

TO APPEAR IN PROC. OF EMNLP 2019. [HTTPS://GITHUB.COM/THUNLP/OPENNRE](https://github.com/THUNLP/OPENNRE)

Nov. 2019

- An open-source toolkit for relation extraction (RE), including sentence-level RE, bag-level RE and few-shot RE.
- Unified framework, modular design, easy to use and very extensible.
- Also include an online DEMO system.
- Already gain 1.6k stars on github!

Hybrid Attention-Based Prototypical Networks for Noisy Few-Shot Relation Classification. Tianyu Gao, Xu Han, Zhiyuan Liu and Maosong Sun.

Honolulu, Hawaii, USA

IN PROC. OF AAAI 2019

Jan. 2019

- Tackle the problem of few-shot relation classification in noisy scenario.
- Add instance-level attention and feature-level attention to Prototypical Networks.
- Achieve great improvement on accuracy and convergence speed compared to baseline models.

Projects

NREpapers: A Paper List for Neural Relation Extraction

[HTTPS://GITHUB.COM/THUNLP/NREpapers](https://github.com/THUNLP/NREpapers)

Jul. 2018 - Present

- Include important papers in relation extraction and will continue to be updated.

FewRel: FewRel Dataset, Toolkits and Baseline Models

[HTTPS://GITHUB.COM/THUNLP/FEWREL](https://github.com/THUNLP/FEWREL)

Jul. 2018 - Sept. 2018

- FewRel is a large-scale few-shot relation extraction dataset.
- I helped with implementing the toolkits and several baseline models.

Experiences

Tsinghua Natural Language Processing and Computational Social Science Lab

UNDERGRADUATE STUDENT RESEARCHER

Beijing, China

Jan. 2018 - Present

- Under the guidance of Prof. Zhiyuan Liu.
- Research on knowledge representation and relation extraction.

Montreal Institution for Learning Algorithm

INTERN

Montreal, Canada

Jul. 2019 - Present

- Directed by Prof. Jian Tang.
- Research on knowledge graph embedding and construction.

Wechat, Tencent

FELLOW OF XINIUNIAO TALENT PROGRAM

Beijing, China

Apr. 2019 - Present

- Research on few-shot relation extraction.

- Research on semantic segmentation.

Honors & Awards

SCHOOL

- 2019 **Fellow of Tsinghua University Initiative Scientific Research Program**, Tsinghua University
- 2018 **Academic Excellence Scholarship**, Tsinghua University
- 2018 **Social Work Scholarship**, Tsinghua University

Beijing, China

Beijing, China

Beijing, China

DOMESTIC

- 2015 **Silver Prize**, National Olympiad in Informatics
- 2015 **Golden Prize**, National Olympiad in Informatics Top Competition
- 2015 **Silver Prize**, Asia-Pacific Informatics Olympiad (China Division)

Hangzhou, China

Beijing, China

Beijing, China