

# Tianyu Gao

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## EDUCATION

### Princeton University

*Ph.D. Student in Computer Science*

- Research Interest: Natural Language Processing
- Advisor: Prof. Danqi Chen

Princeton, New Jersey, USA

2020 - Present

### Tsinghua University

*B.Eng. in Computer Science and Technology*

- Advisor: Prof. Zhiyuan Liu

Beijing, China

2016 - 2020

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## FELLOWSHIPS, AWARDS AND HONORS

Special-Class Scholarship (10 out of 3,000), Tsinghua University, 2019.

Cai Xiong Scholarship (10 out of 3,000), Tsinghua University, 2019.

Fellowship of the Initiative Scientific Research Program (10 out of 3,000), Tsinghua University, 2019.

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## PUBLICATIONS

- [1] *SimCSE: Simple Contrastive Learning of Sentence Embeddings.*  
**Tianyu Gao\***, Xingcheng Yao\*, Danqi Chen. In *Proceedings of Empirical Methods in Natural Language Processing (EMNLP)*, 2021.
- [2] *Making Pre-trained Language Models Better Few-shot Learners.*  
**Tianyu Gao\***, Adam Fisch\*, Danqi Chen. In *Proceedings of Association for Computational Linguistics and International Joint Conference on Natural Language Processing (ACL-IJCNLP)*, 2021.
- [3] *Manual Evaluation Matters: Reviewing Test Protocols of Distantly Supervised Relation Extraction.*  
**Tianyu Gao**, Xu Han, Keyue Qiu, Yuzhuo Bai, Zhiyu Xie, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun, Jie Zhou. In *Proceedings of Findings of the Association for Computational Linguistics*, 2021.
- [4] *KEPLER: A Unified Model for Knowledge Embedding and Pre-trained Language Representation.*  
Xiaozhi Wang, **Tianyu Gao**, Zhaocheng Zhu, Zhiyuan Liu, Juanzi Li, Jian Tang. *Transactions of the Association for Computational Linguistics*, 2021.
- [5] *Learning from Context or Names? An Empirical Study on Neural Relation Extraction.*  
Hao Peng\*, **Tianyu Gao\***, Xu Han, Yankai Lin, Peng Li, Zhiyuan Liu, Maosong Sun, Jie Zhou. In *Proceedings of Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
- [6] *More Data, More Relations, More Context and More Openness: A Review and Outlook for Relation Extraction.*  
Xu Han\*, **Tianyu Gao\***, Yankai Lin\*, Hao Peng, Yaoliang Yang, Chaojun Xiao, Zhiyuan Liu, Peng Li, Maosong Sun, Jie Zhou. In *Proceedings of Asia-Pacific Chapter of the Association for Computational Linguistics*, 2020.
- [7] *Continual Relation Learning via Episodic Memory Activation and Reconsolidation.*  
Xu Han, Yi Dai, **Tianyu Gao**, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun, Jie Zhou. In *Proceedings of Association for Computational Linguistics (ACL)*, 2020.
- [8] *Few-shot Relation Extraction via Bayesian Meta-learning on Task Graphs.*  
Meng Qu, **Tianyu Gao**, Louis-Pascal Xhonneux, Jian Tang. In *Proceedings of International Conference on Machine Learning (ICML)*, 2020.
- [9] *Neural Snowball for Few-Shot Relation Learning.*  
**Tianyu Gao**, Xu Han, Ruobing Xie, Zhiyuan Liu, Fen Lin, Leyu Lin, Maosong Sun. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- [10] *FewRel 2.0: Towards More Challenging Few-Shot Relation Classification.*  
**Tianyu Gao**, Xu Han, Hao Zhu, Zhiyuan Liu, Peng Li, Maosong Sun, Jie Zhou. In *Proceedings of Empirical Methods in Natural Language Processing and International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

- [11] *OpenNRE: An Open and Extensible Toolkit for Neural Relation Extraction*.  
 Xu Han\*, **Tianyu Gao\***, Yuan Yao, Deming Ye, Zhiyuan Liu, Maosong Sun. In *Proceedings of Empirical Methods in Natural Language Processing (EMNLP): System Demonstrations*, 2019.
- [12] *Hybrid Attention-Based Prototypical Networks for Noisy Few-Shot Relation Classification*.  
**Tianyu Gao\***, Xu Han\*, Zhiyuan Liu, Maosong Sun. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2019.

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## PREPRINTS

- [1] *Ditch the Gold Standard: Re-evaluating Conversational Question Answering*.  
 Huihan Li\*, **Tianyu Gao\***, Manan Goenka, Danqi Chen. 2022.

\* indicates equal contribution.

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## RESEARCH AND INDUSTRY EXPERIENCE

<b>Tsinghua NLP Lab</b> <i>Research Assistant with Prof. Zhiyuan Liu</i>	Nov. 2017 – May 2020 <i>Beijing, China</i>
<b>Mila-Quebec AI Institute</b> <i>Research Assistant with Prof. Jian Tang</i>	Jul. 2019 – Sept. 2019 <i>Montreal, Canada</i>
<b>WeChat AI, Tencent</b> <i>Tencent Rhino-Bird Elite Training Program with Dr. Peng Li</i>	May 2019 - May 2020 <i>Beijing, China</i>
<b>Momenta</b> <i>Research Assistant with Dr. Ji Liang</i>	May 2017 - May 2018 <i>Beijing, China</i>

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## TEACHING ASSISTANTSHIPS

<b>COS484: Natural Language Processing</b> <i>Instructor: Prof. Karthik Narasimhan</i>	Spring 2022 <i>Princeton University</i>
<b>COS324: Introduction to Machine Learning</b> <i>Instructor: Prof. Sanjeev Arora and Prof. Danqi Chen</i>	Fall 2021 <i>Princeton University</i>
<b>Natural Language Processing</b> <i>Instructor: Prof. Zhiyuan Liu</i>	Spring 2020 <i>Tsinghua University</i>

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## PROFESSIONAL SERVICE

### Program Committee Member

- Association for Computational Linguistics (ACL) Rolling Review.
- Annual Meeting of the Association for Computational Linguistics (ACL): 2020, 2021.
- Conference on Empirical Methods in Natural Language Processing (EMNLP): 2019, 2021.
- Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL): 2021.
- International Conference on Computational Linguistics (COLING): 2020.
- Conference on Automated Knowledge Base Construction (AKBC): 2021.