

Qinyuan Ye

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Research Interests

Natural Language Processing

- Keywords: Annotation-efficient NLP with high-level human supervision, distant supervision and meta-learning; Learning from human explanations and instructions; Trustworthy NLP.

Education

Department of Computer Science, University of Southern California

Ph.D. Student in Computer Science, Advisor: Prof. Xiang Ren

Los Angeles, U.S.

8/2019–Present

Department of Automation, Tsinghua University

B.Eng. in Automation

Beijing, China

8/2015–7/2019

Preprints

Sparse Distillation: Speeding Up Text Classification by Using Bigger Models [arXiv]

Qinyuan Ye, Madian Khabsa, Mike Lewis, Sinong Wang, Xiang Ren, Aaron Jaech

Publications

Refining Language Models with Compositional Explanations [arXiv] [Github]

Huihan Yao, Ying Chen, Qinyuan Ye, Xisen Jin, Xiang Ren

Accepted to NeurIPS 2021 (Spotlight Presentation).

CrossFit: A Few-shot Learning Challenge for Cross-task Generalization in NLP [arXiv] [Github]

Qinyuan Ye, Bill Yuchen Lin, Xiang Ren

Accepted to EMNLP 2021.

On the Influence of Masking Policies in Intermediate Pre-training [arXiv]

Qinyuan Ye, Belinda Z. Li, Sinong Wang, Benjamin Bolte, Hao Ma, Wen-tau Yih, Xiang Ren, Madian Khabsa

Accepted to EMNLP 2021.

Learning to Generate Task-specific Adapters from Task Description [Paper] [Github]

Qinyuan Ye, Xiang Ren

In Proceedings of ACL-IJCNLP 2021 (Short Paper).

Semi-Automated Protocol Disambiguation and Code Generation [Paper] [Github]

Jane Yen, Tamás Lévai, Qinyuan Ye, Xiang Ren, Ramesh Govindan, Barath Raghavan

In Proceedings of ACM SIGCOMM 2021.

Teaching Machine Comprehension with Compositional Explanations [Paper] [Homepage]

Qinyuan Ye, Xiao Huang, Elizabeth Boschee, Xiang Ren

In Proceedings of Findings of EMNLP 2020.

LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Explanation [Paper] [Homepage]

Dong-Ho Lee*, Rahul Khanna*, Bill Yuchen Lin, Jamin Chen, Seyeon Lee, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren

In Proceedings of ACL 2020 (Demo Track).

Learning from Explanations with Neural Module Execution Tree [Paper] [Homepage]

Ziqi Wang*, Yujia Qin*, Wenxuan Zhou, Jun Yan, Qinyuan Ye, Leonardo Neves, Zhiyuan Liu, Xiang Ren

In Proceedings of ICLR 2020.

Looking Beyond Label Noise: Shifted Label Distribution Matters in Distantly Supervised Relation Extraction [[Paper](#)] [[Github](#)]

Qinyuan Ye*, Liyuan Liu*, Maosen Zhang, and Xiang Ren
In *Proceedings of EMNLP-IJCNLP 2019* (Oral Presentation).

Internship

Research Intern (Remote) **Seattle, WA, U.S.**
AI Integrity @ Facebook AI 5/2021–8/2021
Manager: Aaron Jaech; Collaborators: Madian Khabsa, Sinong Wang, Mike Lewis, Jean-David Ruvini

Research Intern (Remote) **Seattle, WA, U.S.**
AI Integrity @ Facebook AI 5/2020–8/2020
Manager: Madian Khabsa; Collaborators: Belinda Z. Li, Sinong Wang, Scott Wen-tau Yih, Hao Ma
o Keywords: Meta-learning, Implicit Knowledge in Pre-trained Language Models

Software Engineering Intern in Machine Learning **Beijing, China**
TensorFlow Lite @ Google 3/2019–7/2019
Manager: Tian Lin, Xunkai Zhang; Team Lead: Shuangfeng Li

Services

Reviewer: EMNLP(2020-2021), NAACL(2021), ACL(2021), NeurIPS(2021), ICLR(2022)

Honors and Awards

Annenberg Fellowship , University of Southern California	02/2019
China National Scholarship , Ministry of Education, P.R. China	10/2017,10/2018
POSCO Asia Fellowship , POSCO TJ Park Foundation	10/2016
Bronze Medal , National Olympiad in Informatics, China Computer Federation	7/2014

Skills

Programming: Proficient in C, C++, Matlab, Python and \LaTeX ; Capable of C#, SQL, Scala, Verilog

Toolkits and Frameworks: Git, PyTorch, TensorFlow/Keras, fairseq, numpy, pandas

Updated on Oct 21, 2021.