JIE HE

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https://probe2.github.io

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EDUCATION

M.S., Dept. of Computer Science.

2019.9 - 2022.1

Data of birth: September 14th,1998

Tianjin University, Advisor: Prof. Deyi Xiong.

Major GPA: 84.2/100

B.S., Dept. of Software Engineering.

2015.9 - 2019.7

Shandong University, Major GPA: 85.3/100

RESEARCH INTERESTS

My primary research goal is to discover method that we can combine different knowledge to make the artificial intelligence being better in understanding and generation, and develop **Language Technology for All**. To achieve this, I identify two major research topics that I'm interested in: commonsense and interpretability. Commonsense involves both the usage of commonsense datasets [1] and method incorporating knowledge to NLP models [5]. Interpretability involves the diagnose and analyze the errors of existing models [2] and give the model the ability to explain its prediction. I am also interested in discourse phenomena [3,4].

PAPERS

[1] The Box is in the Pen: Evaluating Commonsense Reasoning in Neural Machine Translation **Jie He***, Tao Wang*, Deyi Xiong, Qun Liu Accepted by Proc. of EMNLP 2020 Findings. (3.5/3.5/4)

The public test suite can be found at: [Github]

[2] TGError: An Error-Annotated Dataset and Benchmark Tasks for Text Generation from Pretrained Language Models

Jie He*, Bo Peng*, Yi Liao, Qun Liu, Deyi Xiong Accepted by ACL2021. (2.5/5/3.5)

- [3] Fine-Grained Evaluation for Implicit Discourse Relation Recognition by Using Pre-trained Language Models Wanqiu Long, **Jie He**, Deyi Xiong Submitted to AAAI 2021.
- [4] Evaluate Discourse Cohesion in Pre-trained Language Models Jie He, Wanqiu Long, Deyi Xiong Under revision.
- [5] MetaXCR: Reinforcement-Based Meta-Transfer Learning for Cross-Lingual Commonsense Reasoning Jie He, Yu Fu, Qun Liu, Deyi Xiong Under revision.

INTERNSHIP/TRAININGS

• Research intern in SDU IR LAB

Advisor: Zhumin Chen

Constructing Sports News from Live Text Commentary. We aimed to design a DL model to fully automatically construct sports news from Live Text.

• Cooperation with Huawei Noah's Ark Lab.

2020.9-now

Advisor: Qun Liu.

Chinese text error correction. We aim to investigate the Error produced by GPT2's text generation.

- Developed a set of annotation tools for annotation.
- Built a comprehensive error classification system for the error analysis.

Python, C/C++, Java, Matlab, Latex

Chinese (native), English (fluent)

- Submitted a paper to ACL2021.
- We are considering exploring more generation settings and expanding the size of datasets.
- To be more.

• Reseach intern in Copenhagen nlp

2021.6-now

Advisor: Daniel Hershcovich

Systematic analysis of the application of Graph neural networks in neural machine translation systems. We use GCN to encode UD, AMR and other semantic/syntax information, and observe whether the introduction of this information will bring performance improvements in some challenging nmt test sets.

• Reseach intern in UCL

2021.6-now

Advisor: Pasquale Minervini

Systematic research on the application of prompt learning in natural language explanation tasks.

SKILLS

Programming

Languages

AWARDS	
• The third prize scholarship in Shandong University	2016
• The third prize scholarship in Shandong University	2017
\bullet The first prize scholarship in Tianjin University (10%)	2020
• The first prize scholarship in Tianjin University (10%)	2021

2018.1-2018.6