

JIE HE

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EDUCATION

- | | |
|---|-------------------------|
| M.S., Dept. of Computer Science. Tianjin University, Advisor: Prof. Deyi Xiong. Major GPA : 84.2/100 | Sept. 2019 - Jan. 2022 |
| B.S., Dept. of Software Engineering. Shandong University, Major GPA : 85.3/100 | Sept. 2015 - July. 2019 |

RESEARCH INTERESTS

My primary research interests are in building Language Technology for All, through natural language understanding and generation. Towards this goal, I have an interest in commonsense and interpretability. Commonsense involves both the usage of commonsense datasets [1] and method incorporating knowledge to NLP models [3]. 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 [4,5].

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.
The public test suite can be found at: [\[Github\]](#)

- [2] TGEError: 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.

- [3] MetaXCR: Reinforcement-Based Meta-Transfer Learning for Cross-Lingual Commonsense Reasoning
Jie He, Yu Fu, Qun Liu, Deyi Xiong
Under review.

- [4] Fine-Grained Evaluation for Implicit Discourse Relation Recognition by Using Pre-trained Language Models
Wanqiu Long, **Jie He**, Deyi Xiong
Under revision.

- [5] Evaluate Discourse Cohesion in Pre-trained Language Models
Jie He, Wanqiu Long, Deyi Xiong
Under revision.

INTERNSHIP/TRAININGS

1. Research intern in SDU IR LAB 2018.1-2018.6
Advisor: [Zhumin Chen](#)
Constructing Sports News from live text commentary. We designed a deep learning model to fully automatically construct sports news from Live Text.
2. Collaboration with Huawei Noah's Ark Lab. 2020.9-now
Advisor: [Qun Liu](#).
Chinese text error correction. We investigated 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.
 - Submitted a paper to ACL2021.
 - We are considering exploring more generation settings and expanding the size of datasets.
3. Research 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 machine translation test sets.
4. Research intern in UCL 2021.6-now
Advisor: [Pasquale Minervini](#)
Systematic research on the application of prompt learning in natural language explanation tasks.

SKILLS

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| Programming | Python, C/C++, Java, Matlab, Latex |
| Languages | Chinese (native), English (fluent) |

AWARDS

- The third prize scholarship in Shandong University 2016
- The third prize scholarship in Shandong University 2017
- The first prize scholarship in Tianjin University (10%) 2020
- The first prize scholarship in Tianjin University (10%) 2021