Jiacheng Ye (叶佳成)

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Education

M.S. in Fudan University   2019.09 – 2021.12

- Major in Computer Science. Advisor: Tao Gui and Qi Zhang at FudanNLP Group
- GPA Ranking: 7/145

B.E. in Sun Yat-sen University   2015.09 – 2019.06

- Major in Information Management and Information System
- GPA Ranking: 7/82

About Me

I am a second-year master student of the Natural Langauge Processing Group, School of Computer Science and Technology, Fudan University (FudanNLP). My advisors are assistant professor Tao Gui and professor Qi Zhang. I'm a person with curiosity about the unknown things, and I'm interested in many of subtasks of NLP, such as Keyphrase Generation (ACL21), Named Entity Recognition (EMNLP20, IJCAI20) and Text Generation. To know more about the industrial Machine Learning/NLP applications, I am currently working as an research intern at Tencent Ads (AMS), exploring a better strategy of ranking model in advertising system.

Research Interests

- Natural Language Processing
- Information Extraction
- Text Generation

Seleted Projects

One2Set: Generating Diverse Keyphrases as a Set   ACL 2021

- In this work, we propose a new training paradigm One2Set without predefining an order to concatenate the keyphrases. To fit this paradigm, we propose SETTRANS model that utilizes a fixed set of learned control codes as conditions to generate a set of keyphrases in parallel, which greatly increases the diversity and reduces the duplication ratio of the generated keyphrases.

TextFlint: Robustness Evaluation Toolkit   ACL 2021 Demo

- A multilingual robustness evaluation platform for natural language processing, which unifies text transformation, sub-population, adversarial attack, and their combinations to provide a comprehensive robustness analysis. I am primarily responsible for the POS tagging task and toolkit framework construction.

Publications

*: equal contribution

- **Jiacheng Ye**, Tao Gui, Yichao Luo, Yige Xu, Qi Zhang. ONE2SET: *Generating Diverse Keyphrases as a Set*. In ACL 2021, long paper. [Code] [Blog]

- **FudanNLP Group**. *TextFlint: Unified Multilingual Robustness Evaluation Toolkit for Natural Language Processing*. In ACL 2021 Demo Track. [Site] [Code] [Blog]

- **Jiacheng Ye**, Ruijian Cai, Tao Gui, Qi Zhang, Xuanjing Huang. *Retrieval-Augmented Keyphrase Generation with Heterogeneous Graph Neural Network*. EMNLP 2021 under review, long paper.

- Tao Gui*, **Jiacheng Ye***, Qi Zhang, Zhengyan Li, Zichu Fei, Yeyun Gong, Xuanjing Huang. *Uncertainty-Aware Label Refinement for Sequence Labeling*. In EMNLP 2020, long paper. [Code]

- Tao Gui*, **Jiacheng Ye***, Qi Zhang, Yaqian Zhou, Yeyun Gong, Xuanjing Huang. *Leveraging Document-Level Label Consistency for Named Entity Recognition*. In IJCAI 2020. [Code]
- Tao Gui*, Lizhi Qing*, Qi Zhang, **Jiacheng Ye**, Hang Yan, Zichu Fei, Xuanjing Huang. *Constructing Multiple Tasks for Augmentation: Improving Neural Image Classification With K-means Features*. In AAAI 2020, Oral. [Code]

INTERNSHIPS

Tencent Ads - Research Intern   2021.06 - 2021.09
- Advertising System and Recommendation System. Mentor: Zhihui Lao and Lifeng Wang.
- Focused on the consistency problem in the cascade architecture of industrial advertising system and proposed a new training paradigm for the pre-ranking system. The final work *Consistency-Aware Learning-to-rank Pre-Ranking System* will be submitted to WWW 2022.

Netease Games - Engineer Intern   2018.08 - 2018.12
- Worked on data crawling with Scrapy framework and analysis with Spark, Hive, etc.

HONORS & AWARDS

- China Electronics Technology Guorui scholarship (Top 5%), Fudan University, 2020.
- The second-grade scholarship, Sun Yat-sen University, 2016/2017/2018.
- The faculty scholarship, Sun Yat-sen University, 2016/2017.

SKILLS

- Language: English (CET-6)
- Programming Language：Python, Java, C/C++
- Sports: Badminton (The runner-up in the faculty competition in Sun Yat-sen University)