

Yinyi Wei (韦崧屹)

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EDUCATION

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- Peking University** Beijing, China
Master of Engineering - Software Engineering; GPA: 3.74 / 4.0 Sep. 2020 - Jul. 2023
Research Area: Natural Language Understanding
 - Peking University** Beijing, China
Bachelor of Science - Computer Science and Technology; GPA: 3.42 / 4.0 Sep. 2016 - Jul. 2020
Research Area: User Password Understanding and Generation Based on Deep Learning

EXPERIENCE

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- Meituan Inc.** Beijing, China
Research Intern Mar. 2022 - Present
 - Event Detection:** Research on event detection at sentence-level and dialogue-level; Research on enriching context of event descriptions through retrieval-based and generation-based methods.
 - Emotion Recognition in Conversation:** Research on mining context-, speaker- and augmentation-aware knowledge to promote emotion recognition in conversations.
 - Food Safety Project:** Involved in the optimization of food safety event detection models.
 - Beijing Beida Software Engineering Corp., Ltd.** Beijing, China
Algorithm Developer Intern Jul. 2021 - Mar. 2022
 - Provincial Petition Intelligent Platform Project:** User petitions pre-processing; Questions recommendation for petition staff; Entity relation extraction on textual information of user petitions.
 - Natural Language Processing Platform Project:** Responsible for constructing and developing entity relation extraction models and sentiment analysis models.
 - Construction of Chinese Petition Information Extraction Dataset:** Responsible for data pre-processing, annotation documentation, annotation platform development and baselines construction.
 - Nanning Money World Microfinance Corp., Ltd.** Nanning, China
Backend Developer Intern May 2020 - Sep. 2020
 - Medical Cosmetology Project APP Development:** Involved in the launch and maintenance of medical cosmetology project application; Responsible for the development of the Risk Control Centre module.

PUBLICATIONS

Accepted:

- Eliciting Knowledge from Pretrained Language Models for Prototypical Prompt Verbalizer (ICANN 2022, first author):** Utilizing prototypical networks and contrastive learning to form a prototypical prompt verbalizer, which yields competitive results on text classification tasks in low-resource scenarios compared with general verbalizers of prompt-tuning.

Under Review:

- DESED: Dialogue-based Explanation for Sentence-level Event Detection (Under review in COLING 2022, first author):** Enriching context of event descriptions with dialogue-based explanations.
- Retrieve and Generate: Enriching Context with Explicit and Implicit Knowledge for Event Detection (Under review in EMNLP 2022, first author):** Taking advantage of retrieval-based method and generation-based method to enhance knowledge of event descriptions for event detection.
- Exploiting Intra- and Inter-Speaker Interactions for Dialogue Event Detection (Under review in COLING 2022, third author):** Designing intra-speaker and inter-speaker interaction modules to facilitate dialogue event detection.

PATENTS

Under Review:

- A method and apparatus for identifying petitions in letter form:** Recognition and pre-processing of different formats of petitions using computer vision and natural language processing methods, and performing a custom user-defined review of their normalization
- A method and apparatus for evaluating the extracted results on elements of petitions:** Matching of manually extracted elements with machine-extracted elements using text matching techniques for a petition in order to evaluate the manually extracted results in a uniform manner.

SKILLS SUMMARY

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- Languages:** Python, C/C++, JAVA, SQL, Shell Scripting
 - Libraries&Toolkits:** PyTorch, TensorFlow, L^AT_EX, Git, Linux