

Yinyi Wei (韦崧屹)

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EDUCATION

- 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

- Meituan Inc.** Beijing, China
Research Intern Mar. 2022 - Nov. 2022
 - Event Detection:** Research on event detection in natural language at sentence-level and dialogue-level; Research on enriching contexts of event descriptions through the retrieval-based and generation-based methods.
 - Emotion Recognition in Conversations:** Research on emotion recognition in conversations with contextual information, speaker information and generated conversational knowledge.
 - Food Safety Project:** Involved in the optimization of food safety event detection models over user comments and user-agent conversations, and text classification models over comments and complaints.
- 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 the 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, CCF-C, Long Paper, Oral Presentation, First Author):** Utilizing prototypical networks and contrastive learning to form a prototypical prompt verbalizer for improving general prompt-tuning, and proposing a pre-training procedure for zero-shot scenarios. [Paper Link]
- DESED: Dialogue-based Explanation for Sentence-level Event Detection (COLING 2022, CCF-B, Long Paper, Oral Presentation, First Author):** Enriching contexts of event descriptions with dialogue-based explanations serving as contextual information generated by generative models, and designing hybrid attention mechanisms to exploit dialogue information. [Paper Link]

Under Reviewed:

- Retrieve and Generate: Enriching Context with Explicit and Implicit Knowledge for Event Detection (Submitted to ACL 2023, First Author):** Taking advantage of the retrieval-based method and the generation-based method to enhance knowledge of event descriptions for event detection.
- Exploiting Pseudo Future Contexts for Emotion Recognition in Conversations (Submitted to ACL 2023, First Author):** Improving emotion recognition in conversations with historical contexts, historical speaker-specific contexts, and pseudo future contexts.

PATENTS

- A Method and Apparatus for Identifying Petitions in Letter Form:** Recognition and pre-processing of petitions in different formats using computer vision and natural language processing methods, and providing a custom user-defined review of their normalization.
- A Method and Apparatus for Evaluating the Manually Extracted Results on Elements of Petitions:** Matching of manually extracted elements with machine-extracted ones using text matching techniques for a petition in order to evaluate the manually extracted results in a uniform manner.

SKILLS SUMMARY

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