Yinyi Wei (韦鋈屹)

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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]

Rejected and forwarded:

- **Retrieve and Generate: Enriching Context with Explicit and Implicit Knowledge for Event Detection (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 (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, LaTeX, Git, Linux
- **Honors:**　　Merit Student