Yinyi Wei (韦鉴屹)

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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 - 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 app; 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 forms 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 results of extracted information 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

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