

Yinyi Wei (韦崧屹)

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EDUCATION

- **The University of Hong Kong** Hong Kong, China
Doctor of Philosophy - Construction Engineering and Management
Research Area: Smart Construction
Sep. 2023 - Now
- **Peking University** Beijing, China
Master of Engineering - Software Engineering
Research Area: Natural Language Understanding
Sep. 2020 - Jul. 2023
- **Peking University** Beijing, China
Bachelor of Science - Computer Science and Technology
Research Area: User Password Understanding and Generation Based on Deep Learning
Sep. 2016 - Jul. 2020

EXPERIENCE

- **Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences** Shenzhen, China
Research Assistant
Apr. 2023 - Aug. 2023
 - **Smart Construction:** Research on smart configuration for modular buildings in the context of smart construction with Natural Language Processing techniques.
 - **Patent Compiling and Management:** Responsible for compiling and management of patents in the intersection of engineering and artificial intelligence.
- **Meituan Inc.** Beijing, China
Algorithm Developer 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

- **Generation for Configuration: A Conceptual Paradigm of a Natural Language-Based Configurator for Modular Buildings with ChatGPT.** Wei Y, Li X, Wu C, Zahedi A, Guo Y, Yang Z. *The 28th International Symposium on Advancement of Construction Management and Real Estate. 2023.* (Best Paper Award. Oral Presentation.)
- **Exploiting Pseudo Future Contexts for Emotion Recognition in Conversations.** Wei Y, Liu S, Yan H, Ye W, Mo T, Wan G. *The 19th International Conference on Advanced Data Mining and Applications. 2023.* (Oral Presentation.) [Paper Link]
- **DESED: Dialogue-based Explanation for Sentence-level Event Detection.** Wei Y, Liu S, Lv J, Xi X, Yan H, Ye W, Mo T, Yang F, Wan G. *Proceedings of the 29th International Conference on Computational Linguistics. 2022.* (Oral Presentation.) [Paper Link]
- **Eliciting Knowledge from Pretrained Language Models for Prototypical Prompt Verbalizer.** Wei Y, Mo T, Jiang Y, Li W. *The 31st International Conference on Artificial Neural Networks. 2022.* (Oral Presentation.) [Paper Link]

SKILLS SUMMARY

- **Languages:** Python, C/C++, JAVA, SQL, Shell Scripting
- **Libraries&Toolkits:** PyTorch, TensorFlow, L^AT_EX, Git, Linux
- **English Level:** IELTS Band Score: 7 (Listening: 7, Reading: 8, Writing: 6.5, Speaking: 6.5)