

# Yingming Wang

☎ +45-55225957 ✉ ymwangv@gmail.com 🏠 Homepage 🌐 LinkedIn 🐙 Github

## EDUCATION

### University of Copenhagen

*M.S. in Computer Science*

**GPA:** 9.9/12.0

Copenhagen, Denmark

*Sep. 2023 – Oct. 2025 (expected)*

### Beijing Institute of Technology

*B.S. in Computer Science and Technology*

**GPA:** 85.5/100.0

Beijing, China

*Aug. 2018 – Jun. 2022*

## RESEARCH EXPERIENCE

### University of Copenhagen

*Proactive Web Agents with Interactive Multimodal Clarification*

*Supervised by Yifei Yuan*

Copenhagen, Denmark

*Feb. 2025 – Oct. 2025*

- Proposed a new task of proactive web navigation, constructed the MC-Mind2Web dataset, and developed ProAct, a dual-agent framework that detects ambiguities, asks clarifying questions, and executes tasks across multimodal web environments. Extensive experiments validated the effectiveness of the framework. **(Master Thesis)**

### University of Copenhagen

*Self-Critique and Refinement for Faithful Natural Language Explanations*

*Supervised by Pepa Atanasova*

Copenhagen, Denmark

*Sep. 2024 – May. 2025*

- Proposed SR-NLE, a framework enabling LLMs to iteratively critique and refine their own explanations without external supervision, introducing novel attribution-based feedback and validating the framework's effectiveness across three datasets and four models. **(Accepted at EMNLP 2025 Main)**

### Beijing Institute of Technology

*Polysemous Event Trigger Word Recognition Based on Deep Learning*

*Supervised by Xin Xin*

Beijing, China

*Dec. 2021 – Jun. 2022*

- Developed a deep learning framework to disambiguate polysemous event trigger words by leveraging a self-constructed dataset of 16,000+ annotated entries and employing diverse architectures (CNN, LSTM, GRU, BERT), resulting in improved event extraction accuracy. **(Bachelor Thesis)**

## COURSE PROJECTS

### Information Retrieval System

Apr. 2024 – Jun. 2024

- Assembled a comprehensive information retrieval system based on the PyTerrier framework and DPR dataset.
- Created four distinct indices, each based on a different combination of text preprocessing techniques.
- Constructed and tuned two different ranking models using BM25 and DLM weighting algorithms.
- Expanded queries separately by pseudo-relevance feedback, word embedding, and LLM prompting.

### Multilingual Question Answering System

Sep. 2023 – Nov. 2023

- Designed and implemented two different fine-tuning question answering models for three different languages.
- Implemented supervised classifiers for each language, which predict the question is answerable or not.
- Implemented sequence labellers for each language, which predict the start and end position of the answer.
- Performed zero-shot cross-lingual evaluation for two other languages on the model of one language.

## TEACHING EXPERIENCE

### Teaching Assistant

*University of Copenhagen*

*Nov. 2024 – Present*

- NDAK24002U: Deep Learning (24/25, 25/26)
- NDAK18000U: Natural Language Processing (25/26)

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, Python, JavaScript, HTML, CSS, SQL...

**Frameworks and Tools:** PyTorch, Scikit-Learn, SciPy, NumPy, Pandas, Matplotlib, Linux, Git, Latex...

**Languages:** Mongolian, Chinese, English