Qingni Wang

Email: qingni1031@gmail.com Homepage Google Scholar

Institution: University of Electronic Science and Technology of China (UESTC)

Status: Master Degree Candidate

EDUCATION

China University of Mining and Technology (CUMT)

Bachelor's degree in Electronic Information Science and Technology

University of Electronic Science and Technology of China (UESTC)

Master's degree in Computer Science and Technology

Supervised by Prof. Bo Fu

Average GPA: 4.00/5.00 (Rank 5/106)

Sep 2023 — Present Average GPA: 3.54/4.00

Sep 2019 — Jun 2023

RESEARCH EXPERIENCE

Southern University of Science and Technology (SUSTECH)

Supervised by Prof. Feng Zheng

Jun 2024 — Oct 2024

- Risk-Controlled Video Question Answering: Developed a conformal risk-controlled framework for open-ended VideoQA, enabling statistically reliable answer selection and revealing modality-specific uncertainty behaviors when MLLMs are restricted to single-modality inputs. (ICLR 2025 Spotlight)
- Omni-Modal Long Video Understanding: Introduced LongVALE, the first large-scale benchmark for the understanding of vision-audio-language events with fine-grained temporal boundaries and correlation-aware captions. Built a scalable pipeline for automatic omni-modal annotation and developed LongVALE-trained model, enabling cross-modal reasoning and fine-grained temporal perception in long videos. (CVPR 2025)

University of California, Santa Barbara (UCSB)

Supervised by Prof. Xin Eric Wang

May 2025 — Present

- Risk-Controlled Reasoning in Large Language Models: Proposed SAFER, a two-stage conformal framework for risk-constrained open-ended QA. Unlike the prior Sample then Identify framework that relies on the assumption that correct answers can always be sampled within a finite space, SAFER introduces explicit abstention and diverse correctness criteria to achieve provable miscoverage control and efficiency across large language models. (Under Review)
- Uncertainty and Risk Control in GUI Grounding: Studying uncertainty estimation and risk-aware routing for GUI grounding, where the model decides whether to answer or delegate based on calibrated uncertainty. (In Progress)

RESEARCH INTREREST

- Uncertainty Quantification:(1) Conformal Prediction (2) Conformal Risk Control.
- Hallucination in Question Answering (QA) Tasks of Multimodal Large Language Models (MLLMs).
- Trustworthy AI Agents: Risk-Aware Planning and Reliable Task Execution.

My long-term goal is to advance trustworthy foundation models (e.g., LLMs, MLLMs, and Agents) that understand and regulate their own uncertainty, achieving trustworthy reasoning and decision-making in complex real-world scenarios.

PUBLICATIONS

Published Papers: († means equal contribution)

- 1. Qingni Wang, Tiantian Geng, Zhiyuan Wang, Teng Wang, Bo Fu, Feng Zheng. Sample then Identify: A General Framework for Risk Control and Assessment in Multimodal Large Language Models. International Conference on Learning Representations (ICLR), Spotlights, 2025.
- 2. Qingni Wang, Yue Fan, Xin Eric Wang. SAFER: Risk-Constrained Sample-then-Filter in Large Language Models. Under Review.
- 3. Zhiyuan Wang[†], Qingni Wang[†], Yue Zhang, Tianlong Chen, Xiaofeng Zhu, Xiaoshuang Shi, Kaidi Xu. SConU: Selective Conformal Uncertainty in Large Language Models. Annual Meeting of the Association for Computational Linguistics (ACL), Main, 2025.
- 4. Tiantian Geng, Jinrui Zhang, Qingni Wang, Teng Wang, Jinming Duan, Feng Zheng. LongVALE: Vision-Audio-Language-Event Benchmark Towards Time-Aware Omni-Modal Perception of Long Videos. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

- 5. Zhiyuan Wang, Jinhao Duan, Qingni Wang, Xiaofeng Zhu, Tianlong Chen, Xiaoshuang Shi, Kaidi Xu. COIN:
 Uncertainty-Guarding Selective Question Answering for Foundation Models with Provable Risk Guarantees. Under
 Review
- 6. Zhiyuan Wang, Jinhao Duan, Lu Cheng, Yue Zhang, **Qingni Wang**, Xiaoshuang Shi, Kaidi Xu, Hengtao Shen, Xiaofeng Zhu. ConU: Conformal Uncertainty in Large Language Models with Correctness Coverage Guarantees. Conference on Empirical Methods in Natural Language Processing (**EMNLP**), Findings, 2024.

ACADEMIC SERVICES

• Annual Meeting of the Association for Computational Linguistics (ACL)	2025
• Conference on Empirical Methods in Natural Language Processing (EMNLP)	2025
ACM International Conference on Multimedia (MM)	2025
• International Conference on Learning Representations (ICLR)	2026

HONORS AND AWARDS

National Scholarship	2025
Academic Seedling Award	2025
• Outstanding Student	2024, 2025
• The First Prize Scholarship	2020, 2021

LANGUAGE PROFICIENCY

• IELTS Overall Band Score: 7.5 Sep 2025