

# Qingni Wang

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

Status: Master Degree Candidate

## EDUCATION

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### China University of Mining and Technology (CUMT)

Bachelor's degree in Electronic Information Science and Technology

Sep 2019 — Jun 2023

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

### University of Electronic Science and Technology of China (UESTC)

Master's degree in Computer Science and Technology

Sep 2023 — Present

Average GPA: 3.54/4.00

Supervised by Prof. Bo Fu

## RESEARCH EXPERIENCE

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### 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 misscoverage 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 INTEREST

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- 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

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**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. Association for the Advance of Artificial Intelligence (**AAAI**), 2026.
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**

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**Program Committee Member of Conferences:**

- 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**

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

**LANGUAGE PROFICIENCY**

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- IELTS Overall Band Score: 7.5 Sep 2025