

# Weixiang Yan

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## Education

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**University of California, Santa Barbara (UCSB)** *Sept. 2023 – Dec. 2024*  
*Master of Science in Computer Science* *California, USA*

- **Research Interests:** Code Intelligence, Natural Language Processing, Software Automation

**Beijing University of Posts and Telecommunications (BUPT)** *Sept. 2018 – June 2022*  
*Bachelor of Science in Engineering and Bachelor of Science in Management* *Beijing, China*

- **Awards & Honors:** National Scholarship(2020 & 2021)(Top 1%), WanDatong Scholarship(Top 5%), Merit Student Award, Outstanding Graduate Award, Outstanding Bachelor's Paper

## Work Experience

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**Amazon (Generative Foundational AI)** *Dec. 2024 – Now*  
*Applied Scientist* *California, USA*

- Responsible for addressing hallucination issues in models; serves as a core member of the reasoning team.

## Publications & Patents

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- Yuchen Tian\*, **Weixiang Yan\***, Qian Yang, ..., Lei Ma, Dawn Song. "CodeHalu: Investigating Code Hallucinations in LLMs via Execution-based Verification" (**AAAI 2025**)
- Yuwei Zhao, Ziyang Luo, Yuchen Tian, Hongzhan Lin, **Weixiang Yan**, Annan Li, Jing Ma. "CodeJudge-Eval: Can Large Language Models be Good Judges in Code Understanding?" (**COLING 2025**)
- Qian Yang, **Weixiang Yan**, Aishwarya Agrawal. "Decompose and Compare Consistency: Measuring VLMs' Answer Reliability via Task-Decomposition Consistency Comparison" (**EMNLP 2024**)
- **Weixiang Yan**, Haitian Liu, Yunkun Wang, Yunzhe Li, ..., Hari Sundaram. "CodeScope: An Execution-based Multilingual Multitask Multidimensional Benchmark for Evaluating LLMs on Code Understanding and Generation" (**ACL 2024**)
- **Weixiang Yan**, Yuchen Tian, Yunzhe Li, Qian Chen, Wen Wang. "CodeTransOcean: A Comprehensive Multilingual Dataset for Code Translation" (**EMNLP 2023**)
- Yunzhe Li, Qian Chen, **Weixiang Yan**, ..., Hari Sundaram. "Advancing Precise Outline-Conditioned Text Generation with Task Duality and Explicit Outline Control" (**EACL 2024**)
- **Weixiang Yan**, Qian Chen, Wen Wang, Qianlin Zhang. "DialogueAttention: A training method and device for generating intelligent summarization of multi-person and long conversational text" (**Chinese patent CN 116186244 A**)
- **Weixiang Yan**, Yuanchun Li. "WhyGen: Explaining ML-powered Code Generation by Referring to Training Examples" (**ICSE 2022 Demo Track**)
- Shaokun Zhang, Yuanchun Li, **Weixiang Yan**, Yao Guo, Xiangqun Chen. "Dependency-aware Form Understanding" (**ISSRE 2021**)
- Qian Yang, **Weixiang Yan**, Aishwarya Agrawal. "Investigating Reliable Question Decomposition for Vision-Language Tasks" (**CVPR 2024 Workshop**)
- Qian Yang, **Weixiang Yan**, Aishwarya Agrawal. "Enhancing Multi-Agent Multi-Modal Collaboration with Fine-Grained Reward Modeling" (**NeurIPS 2024 Workshop**)

## *Preprints*

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- **Weixiang Yan**, Haitian Liu, Tengxiao Wu, Qian Chen, Wen Wang, ..., Li Zhu. “ClinicalLab: Aligning Agents for Multi-Departmental Clinical Diagnostics in the Real World” (**Under review**)
- Zhen Zhang, Xuehai He, **Weixiang Yan**, Ao Shen, ..., Xin Eric Wang. “Soft Thinking: Unlocking the Reasoning Potential of LLMs in Continuous Concept Space” (**Under review**)
- Ilgee Hong, Changlong Yu, Liang Qiu, **Weixiang Yan**, ..., Chao Zhang, Tuo Zhao. “Think-RM: Enabling Long-Horizon Reasoning in Generative Reward Models” (**Under review**)

## *Internship Experience*

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### **Alibaba Group (Damo Academy)**

*July 2022 – Jan. 2023*

*Research Intern, advised by Dr. [Wen Wang](#), [Qian Chen](#)*

- Contributed to several published projects on code intelligence and text generation, including **CodeScope** (ACL), a multilingual executable benchmark for code evaluation; **CodeTransOcean** (EMNLP), a large-scale dataset for multilingual code translation; and a **summarization-enhanced generation** method (EACL). Hold a patent for **DialogueAttention**, improving summarization in multi-person and long-term conversations.

### **Microsoft Research (MSRA)**

*June 2021 – Oct. 2021*

*Research Intern, advised by Dr. [Yuanchun Li](#)*

- Designed **WhyGen**, a tool that explains generated code by referring to training samples during code generation and notifies the user of possible recitations and imitations; the paper is published in ICSE.
- Awarded the Honor of Microsoft Research Asia Outstanding Intern “Star of Tomorrow”.(Top 10%)

### **Peking University**

*Nov. 2020 – May 2021*

*Research Assistant, advised by Dr. [Yao Guo](#)*

- Proposed the **DependEX** method to accurately understand dependencies within forms; the paper is published in ISSRE.

### **Tsinghua University**

*Oct 2020 – Apr 2021*

*Research Assistant, advised by Dr. [Jian Li](#)*

- Built options data lake (quantitative database & risk factor database), perform statistical analysis of the market and alternative data, and conduct IC and correlation tests.

## *Professional Services*

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**Conference Reviewer:** NeurIPS, ICLR, ACL, EMNLP, NAACL, ARR, EACL, COLM

**Open Source Services:** BigCode