

# Junli Wang

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## Education

Jan 2026 – present

**University of California, San Diego**

PhD in Computer Science and Engineering

Advisors: Prof. Prithviraj Ammanabrolu and Prof. Hao Zhang

Sep 2021 – Jun 2025

**Tsinghua University**

B.E. in Computer Science

GPA: 3.92/4.00

## Research Experience

Apr 2024 – Dec 2025

**XLang Lab, The University of Hong Kong**

*Research Assistant (Advisor: Prof. Tao Yu)*

**Research Topic:** Building end-to-end infrastructure for multimodal computer use agent research

- Led VideoAgentTrek, a scalable data synthesis framework that automatically extracts interleaved multimodal computer use agent pretraining data from internet scaled online videos.
- Developed Aguis, the first unified pure-vision computer use agent, with strong performance on ScreenSpot, OSWorld, and multiple cross-platform benchmarks.
- Designed and Built AgentNet Tool, a distributed annotation platform powering large-scale computer use trajectory collection for OpenCUA, the state-of-the-art open-source computer use agent.

Dec 2024 – Dec 2025

## Alibaba Qwen

*Research Intern (Host: Binyuan Hui), Co-advised by Prof. Tao Yu*

**Research Focus:** Training and evaluation infrastructure for frontier computer use agents

- Contributed to Qwen3-Coder's autonomous web agent capabilities, achieving SOTA on complex browser-use benchmarks including WebArena and Mind2Web.
- Built robust, scalable infrastructure for Qwen3-VL and Qwen3.5: Towards Native Multimodal Agents's computer use capabilities: parallel evaluation system (OSWorld-Verified) and distributed RL training framework, driving end-to-end performance gains on OSWorld.

## Publications and Preprints

### Qwen3.5: Towards Native Multimodal Agents

*Contributor (Responsible multimodal digital agent post-training)*

### Qwen3-Coder-Next: Pushing Small Hybrid Models on Agentic Coding

*Contributor*

### Qwen3-Coder: Agentic Coding in the World

*Core Contributor (Responsible for autonomous web agent capabilities)*

preprint

### Computer Agent Arena: Toward Human-Centric Evaluation and Analysis of Computer-Use Agents

*Bowen Wang\*, Xinyuan Wang\*, Jiaqi Deng\*, Tianbao Xie, Ryan Li, Yanzhe Zhang, Junli Wang, Dunjie Lu, Zicheng Gong, Gavin Li, Toh Jing Hua, Wei-Lin Chiang, Ion Stoica, Diyi Yang, Yu Su, Yi Zhang, Zhiguo Wang, Victor Zhong, Tao Yu*

ICLR 2026

### VideoAgentTrek: Computer Use Pretraining from Unlabeled Videos

*Dunjie Lu\*, Yiheng Xu\*, Junli Wang\*, Haoyuan Wu, Xinyuan Wang, Zekun Wang, Junlin Yang, Hongjin Su, Jixuan Chen, Junda Chen, Yuchen Mao, Jingren Zhou, Junyang Lin, Binyuan Hui, Tao Yu*

NeurIPS 2025

Spotlight

### OpenCUA: Open Foundations for Computer-Use Agents

*Xinyuan Wang\*, Bowen Wang\*, Dunjie Lu\*, Junlin Yang\*, Tianbao Xie\*, Junli Wang\*, Jiaqi Deng, Xiaole Guo, Yiheng Xu, Chen Henry Wu, Zhennan Shen, Zhuokai Li, Ryan Li, Xiaochuan Li, Junda Chen, Boyuan Zheng, Peihang Li, Fangyu Lei, Ruisheng Cao, Yeqiao Fu, Dongchan Shin, Martin Shin, Jiarui Hu, Yuyan Wang, Jixuan Chen, Yuxiao Ye, Danyang Zhang, Dikang Du, Hao Hu, Huarong Chen, Zaida Zhou, Yipu Wang, Heng Wang, Diyi Yang, Victor Zhong, Flood Sung, Y.Charles, Zhilin Yang, Tao Yu*

NeurIPS 2025 D&B  
[Spotlight](#) **Scaling Computer-Use Grounding via User Interface Decomposition and Synthesis**  
*Tianbao Xie, Jiaqi Deng, Xiaochuan Li, Junlin Yang, Haoyuan Wu, Jixuan Chen, Wenjing Hu, Xinyuan Wang, Yuhui Xu, Zekun Wang, Yiheng Xu, **Junli Wang**, Doyen Sahoo, Tao Yu, Caiming Xiong*

ICML 2025 **Aguis: Unified Pure Vision Agents for Autonomous GUI Interaction**  
*Yiheng Xu\*, Zekun Wang\*, **Junli Wang\***, Dunjie Lu, Tianbao Xie, Amrita Saha, Doyen Sahoo, Tao Yu, Caiming Xiong*

ICLR 2025  
[Spotlight](#) **AgentTrek: Agent Trajectory Synthesis via Guiding Replay with Web Tutorials**  
*Yiheng Xu\*, Dunjie Lu\*, Zhennan Shen\*, **Junli Wang**, Zekun Wang, Yuchen Mao, Caiming Xiong, Tao Yu*

Blog **Introducing OSWorld-Verified**  
*Tianbao Xie, Mengqi Yuan, Danyang Zhang, Xinzhuang Xiong, Zhennan Shen, Zilong Zhou, Xinyuan Wang, Yanxu Chen, Jiaqi Deng, Junda Chen, Bowen Wang, Haoyuan Wu, Jixuan Chen, **Junli Wang**, Dunjie Lu, Hao Hu, Tao Yu*

### Honors and Awards

- 2024 Tsinghua University Comprehensive Excellence Award (Top 10%)
- 2023 Tsinghua University Comprehensive Excellence Award (Top 10%)
- 2023 Meritorious Winner, Mathematical Contest in Modeling (MCM)
- 2022 First Prize, National College Student Mathematics Competition

### Professional Services

- 2025- Reviewer, Annual Meeting of the Association for Computational Linguistics (ACL)

### Skills

LLM Infrastructure Proficient in Megatron-LM, vLLM, and SGLang

Reinforcement Learning Experienced with VeRL, Slime/Miles

Programming Python, C, Java, JavaScript

Tools & Frameworks PyTorch, Git, L<sup>A</sup>T<sub>E</sub>X, React.js, Django

Languages Chinese (Native), English (TOEFL 105)