



# Qiping Wei

PhD Candidate



## Profile

A dedicated, principled, and hard-working researcher with a strong passion for exploring machine learning techniques and large language models (LLMs) to address complex engineering challenges.



## Publications

- Jul. 2024** ● Sligtpt: A Large Language Model-Based Approach for Data Dependency Analysis on Solidity Smart Contracts (Journal: **Software**)
- Jun. 2024** ● A Coverage-Driven Approach to Symbolic Execution of Smart Contracts (Journal: **DLT**)
- Oct. 2023** ● SmartExecutor: Coverage-Driven Symbolic Execution Guided by a Function Dependency Graph (**BRAINS 2023**) (awarded as one of the best papers)
- Apr. 2023** ● MagicMirror: Towards High-Coverage Fuzzing of Smart Contracts (**ICST 2023**) (co-author)



## Education

- present** ● **Ph.D., Computer Science**  
University of Texas at Arlington (UTA)  
Arlington, TX, USA
- Awarded in 2019** ● **M.S., Computer Engineering**  
University of Texas at Arlington (UTA)  
Arlington, TX, USA
- Awarded in 2015** ● **B.S., Computer Science and Technology**  
Huazhong University of Science and Technology (HUST)  
Wuhan, Hubei, China



## Teaching Experience

- 2019** ● **Teaching Assistant**  
Computer Networks **or**  
Advanced topic in Computer Networks
- 2018** ● **Teaching Assistant**  
Software Testing and Maintenance **or**  
Advanced topic in Software Engineering
- present** ● **Mentor**  
Martha Taffa (Summer 2020)  
Ameen Mahouch (Fall 2023)  
Matthew Moran (Spring 2024)



## Projects

- Enhance the symbolic execution of smart contracts with LLMs (**active**).
- Apply deep reinforcement learning to generate function sequences (**active**).
- Leverage LLMs to do data dependency analysis.
- Employ a graph structure and state significance analysis to guide the symbolic execution of Solidity smart contracts.



## Work Experience

**Office Assistant (part-time)**  
*Distance Learning and Continuing Education Branch of National Research Association of Computer Education in Colleges and Universities of China*  
Wuhan, China (2011-2016)



## Services

- Editor for the Journal of Computer Technology and Education (in Chinese) (2020-present)
- Judge for Innovation Day (April 2023 & April 2024)



## Awards

Awarded as one of the best teaching assistants in 2024.



## Contact

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