



Hui Liu
M.Eng. Software Engineering
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EDUCATION

- ◇ **Guangxi Normal University**
(*Master of Engineering in Software engineering | Advisor: Prof. Zhi Li*) Sep, 2020 – Jul, 2023 (expected)
Research Area: Software Testing, Software Security, Software requirements.
- ◇ **Anhui Normal University**
(*Bachelor of Engineering in Software engineering | Advisor: Prof. Xuemei Qi*) Sep, 2016 – Jul, 2020

PUBLICATIONS & MANUSCRIPTS

- ◇ **Hui Liu**, Yunfang Li, Zhi Li*. EARS2TF: A Tool for Automated Planning Test from Semi-formalized Requirements. Accepted by *The 34th International Conference on Software Engineering and Knowledge Engineering (SEKE22)*. [Elsevier]
- ◇ **Hui Liu**, Zhi Li*. Automatic Generation of System-level Security Test Framework from Semi-formal Natural Language. Submitted to *Software Quality Journal (SQJ)*. Under review.

PROJECT EXPERIENCE

- ◇ **Adaptive Cruise Traffic Guidance System** (Mar, 2018 – Mar, 2020)
 - Task distribution: As the project leader, I assign tasks to team members and develop the android software.
 - Content: By automatically sensing the precise distance and accurate orientation between each vehicle body to collect information such as the location and speed of the vehicle, the system background three-dimensional modeling of the environment and generate the best diversion plan. By controlling all vehicles in the blocked area automatically, traffic jams can be resolved.
 - Achievements: Android Software with a Software Copyright, Tool: **Android Studio**, Database: **Lean Cloud**
- ◇ **Research on Problem-Oriented Obstacles Identification for Security Testing** (Mar, 2021 – Apr, 2023)
 - Task distribution: As the project leader, I need to complete the project independently.
 - Content: This research generates a test framework from the requirements described in the requirements template EARS (Easy Approach to Requirements Syntax). It also uses the mainstream method of requirements engineering, problem framework, to model software requirements and derive test cases based on problem concerns to ensure that testers have the right direction and clear objectives for what they want to test.
 - Achievements: A tool programmed with the domain-specific language **Xtext**, the statically typed programming language **Xtend**, that automatically generates system-level test information from semi-formal natural language.

HONORS & AWARDS

- ◇ 2020 The 3rd Guangxi Collegiate Programming Contest, The First Prize
- ◇ 2020 ACM ICPC Asia Nanjing Regional Contest, Honorable Mention
- ◇ 2020 Guangxi Collegiate Artificial Intelligence Design Contest, The Third Prize
- ◇ 2021 “Huawei Cup” The 18th China Post-Graduate Mathematical Contest in Modeling, Successful Participation Award
- ◇ 2017 Mathematical Modeling Competition School Selection Round, The Second Prize
- ◇ 2021-2022 Guangxi Normal University Third-class Scholarship (two times)
- ◇ 2017-2020 Anhui Normal University Third-class Scholarship (four times)

SOCIAL WORK EXPERIENCE

- ◇ **Online enterprise practical training of Beijing Qianfeng Internet Technology Co.** (Mar, 2020 – Apr, 2020)
I implemented the epidemic big data patient distribution map web page.
- ◇ **Summer intern in a big data company in Wuhu City, Anhui Province** (Jun, 2018 – Aug, 2018)
I implemented a web page by using html & css.

SKILLS

- ◇ **Programming:** Java, Python, React, HTML/CSS, C/C++, Markdown, LaTeX, Git
- ◇ **English:** CET-6 486 (Listening 179, Reading 165, Writing&Translation 143); **Chinese:** Native language