

Curriculum Vitae

XINYUE LIU (刘心悦)

School of Big Data & Software Engineering, Chongqing University (重庆大学大数据与软件学院)

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Research Interest: web application testing and analysis, JavaScript and WebAssembly program analysis, web third-party library detection

EDUCATION BACKGROUND

- Ph.D., **University at Buffalo, SUNY**, Buffalo, USA

Department of Computer Science and Engineering

Thesis: "Web Library Detection and its Security Implications in the Wild"

Advisor: Lukasz Ziarek

2021 – 2025
- B.S., **Nanjing University**, Nanjing, China

Department of Computer Science and Technology

Advisor: Lin Chen

2016 – 2020

EMPLOYMENT HISTORY

- Assistant Professor, Big Data & SE, Chongqing University

Oct 2025 – present
- Research Assistant, Computer Science & Eng., University at Buffalo

Sep 2023 – Sep 2025
- Teaching Assistant, Computer Science & Eng., University at Buffalo

Feb 2021 – June 2023
- Technical Intern, TiMi J5 Studio, Tencent

June 2019 – Sep 2019

PUBLICATIONS (Total - 7)

Refereed Conference Proceedings (6)

- [C1] **X. Liu**, H. Cai, L. Ziarek, "PTV: Scalable Version Detection of Web Libraries and its Security Application," the 48th IEEE/ACM International Conference on Software Engineering (ICSE 2026). (Acceptance: 24.2%, 160/660)
- [C2] **X. Liu**, Z. Song, W. Fang, W. Yang, W. Wang, "WEFix: Intelligent Automatic Generation of Explicit Waits for Efficient Web End-to-End Flaky Tests," The Web Conference 2024 (WWW 2024). (Acceptance: 20.2%, 405/2008)
- [C3] **X. Liu**, L. Ziarek, "PTdetector: An Automated JavaScript Front-end Library Detector," 38th IEEE/ACM International Conference on Automated Software Engineering (ASE2023). (Acceptance: 21%, 103/629)

- [C4] Y. Yan, Y. Zheng, **X. Liu**, N. Medvidovic, W. Wang, "AdHere: Automated Detection and Repair of Intrusive Ads," 45th IEEE/ACM International Conference on Software Engineering (ICSE 2021). (Acceptance: 26%, 209/796)
- [C5] A. Romano, **X. Liu**, Y. Kwon, W. Wang, "An Empirical Study of Bugs in WebAssembly Compilers," 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021). (Acceptance: 19.2%, 82/427)
- [C6] **X. Liu**, Yanhui Li , "Is Bigger Data Better for Defect Prediction: Examining the Impact of Data Size on Supervised and Unsupervised Defect Prediction, " 12 pages, Sep. 2019, WISA 2019

Refereed Journals (1)

- [J1] **X. Liu**, L. Ziarek, "Unique Subtree Mining Algorithm and its Application on Version Classification," IEEE Transactions on Software Engineering (TSE). Under Review.