Xuan Xie

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EDUCATION

Sun Yat-sen University   Guangzhou, China

Bachelor of Engineering in School of Data and Computer Science / Software Engineering / GPA: 3.7/4.0

RESEARCH EXPERIENCE

Sun Yat-sen University

Research Assistant (Supervised by Professor Jiajing Wu)   *March-December, 2018*

- Found two critical issues in cross-version defect prediction: the selection of proper versions and class-overlapping files
- Proposed a model called CDS to solve the aforementioned issues

Mobile Network and Big Financial Data Laboratory, Inplus Lab, SYSU

Laboratory Research Intern (Supervised by Professor Zibin Zheng and Professor Jiajing Wu)   *March-December, 2018*

Hong Kong University of Science and Technology

Visiting Intern (Supervised by Professor Shing-Chi Cheung)   *July-December, 2018*

- Designed MUTAPI, the first approach to discovering API misuse patterns via mutation analysis
- Discovered API misuse can be validated via executing it against test suites and analyzing the execution information
- Collected a benchmark dataset which contains over one hundred regression bugs
- Ran static bug finders on regression bugs and extract features from bug-inducing changes

Southern University of Science and Technology

Visiting Student (Supervised by Professor Yepang Liu)   *December, 2018-August, 2019*

- Exploring the performance of static bug finders in Android projects

TEAMWORK/TEACHING EXPERIENCE

Sun Yat-sen University

ISSTA 2019 Student Volunteer   *July, 2018*

- Providing assistance to the Conference management and secretariat staff
- Helping and directing other Conference participants
- Contributing to the overall smooth running of the Conference functions and social events

The Mathematical Contest in Modeling (Group Member)   *February, 2018*

- Responsible for modeling and optimizing modeling system
- Adopting Particle Swarm Optimization algorithm in model building
- Successfully generating prediction on future development of Tesla's Charging Stations and electronic vehicles

Teaching Assistant for Software Engineering Project(Mid-level)   *March-July, 2018*

- Assisting in answering academic inquiries from students and coached Java programming projects for students
- Maintaining the school-developed assignment system MATRIX
- Renewing homework notification for undergraduates on the system

PUBLICATION

Exposing Library API Misuses via Mutation Analysis   *ICSE 2019*

Exploring and Exploiting the Correlations Between Bug-Inducing and Bug-Fixing Commits   *FSE 2019*

ACADEMIC AWARDS

Third-class Scholarship   Sun Yat-sen University, *2017*

Third-class Scholarship   Sun Yat-sen University, *2018*

Honorable Mention Award for COMAP's International Mathematical Contest in Modeling   Sun Yat-sen University, *2018*

SKILLS AND INTERESTS

Skills and Strengths: C/C++ Programming; Java Programming; Machine Learning

Research Focuses: Software Engineering; Machine Learning

Research Interests: Empirical Study; Defect Prediction; Fuzzing Testing

LANGUAGE PROFICIENCY

Chinese: Native   **English:** Fluent **(GRE:** 316   **TOEFL:** 94   **CET-4:** 608   **CET-6:** 537)