

# Xuan Xie

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## EDUCATION

### Max Planck Institute for Software System

Ph.D., Computer Science, Supervised by Prof. Maria Christakis

Kaiserslautern, Germany

Sep, 2019 - Now

### Sun Yat-sen University

Bachelor of Engineering in Software Engineering / GPA: 3.7/4.0

Guangzhou, China

2015 - 2019

## RESEARCH EXPERIENCE

### Sun Yat-sen University

Research Assistant (Supervised by Professor Jiajing Wu and Prof. Zibin Zheng)

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

### Hong Kong University of Science and Technology

Visiting Student (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 two hundred bug-inducing and bug-fixing commits
- Ran static analysis tools on bug-inducing commits to evaluate the performance of static analysis tools

### Southern University of Science and Technology

Visiting Student (Supervised by Professor Yepang Liu)

December, 2018 - August, 2019

- Explored the performance of static analysis tools in Android projects

### Max Planck Institute for Software System

September, 2019 - Now

- Studying to combining fuzzing testing and dynamic symbolic execution

## 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

## 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:** 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)