

# YUWEI ZHANG

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## 🎓 EDUCATIONAL HISTORY

### Beijing University of Posts and Telecommunications

*Ph.D. in Computer Science & Technology*

Advisor: Prof. Yunzhan Gong

Beijing, China

Sep 2016 – Jun 2021

### Beijing University of Posts and Telecommunications

*B.S. in Network Engineering*

Beijing, China

Sep 2012 – Jun 2016

## 👤 EMPLOYMENT HISTORY

### Institute of Software Chinese Academy of Science

*Assistant Research Fellow*

Beijing, China

Aug 2023 – present

### Peking University

*Postdoctoral Associate*

Beijing, China

Sep 2021 – Jul 2023

Advisor: Prof. Zhi Jin

## 📖 SELECTED PUBLICATIONS

### Refereed Journal or Conference Papers

(Corresponding Author)

1. **Yuwei Zhang**, Ying Xing, Ge Li, Zhi Jin. Automated Static Warning Identification via Path-based Semantic Representation. *Journal of Software*, 2023. [CCF-A]
2. **Yuwei Zhang**, Zhi Jin, Zejun Wang, Ying Xing, Ge Li. SAGA: Summarization-Guided Assert Statement Generation. *Journal of Computer Science and Technology*, 2023. [CCF-B]
3. Yanyang Zhao, Yawen Wang, **Yuwei Zhang**, Dalin Zhang, Yunzhan Gong, Dahai Jin. ST-TLF: Cross-Version Defect Prediction Framework Based on Transfer Learning. *Information and Software Technology*, 2022. [CCF-B]
4. Ying Xing, Xiaomeng Qian, Yu Guan, Bin Yang, **Yuwei Zhang**. Cross-Project Defect Prediction Based on G-LSTM Model. *Pattern Recognition Letters*, 2022. [CCF-C]
5. **Yuwei Zhang**, Dahai Jin, Ying Xing, Yunzhan Gong. Automated Defect Identification via Path Analysis-Based Features with Transfer Learning. *Journal of Systems and Software*, 2020. [CCF-B]
6. **Yuwei Zhang**, Ying Xing, Yunzhan Gong, Dahai Jin, Honghui Li, Feng Liu. A Variable-Level Automated Defect Identification Model Based on Machine Learning. *Soft Computing*, 2020. [CCF-C]

### In-Submission Papers

1. Ying Xing, Mengci Zhao, Bin Yang, **Yuwei Zhang**, Wenjin Li, Jiawei Gu, Jun Yuan. Defect Category Prediction Based on Multi-Source Domain Adaptation. 2023.
2. **Yuwei Zhang**, Zhi Jin, Ying Xing, Ge Li. Automatic Bug Fixing in the Era of Large Language Models: Interactive Simulation of Programmer Behavior. 2023.
3. **Yuwei Zhang**, Ge Li, Ying Xing, Zhi Jin. RepeatNPR: Improving Neural Program Repair using Program Dependence Analysis and Filter Mechanism. 2023.
4. Dongming Zhu, Yawen Wang, Boyang Zheng, Dahai Jin, **Yuwei Zhang**. SEMVul: Semantic-Driven Multi-Channel Image Construction for Enhanced Vulnerability Detection. 2023.

### Book Chapters

1. Yunzhan Gong, Ruilian Zhao, Wei Zhang, Yawen Wang, **Yuwei Zhang**. Software Testing Third Edition. 2021.

## ACADEMIC SERVICES

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- Conference External Reviewer – ICST’23, ICSOC’23, APSEC’23, SANER’23, ICSE-SEIP’22
- Journal Reviewer – Knowledge and Information Systems, IEEE Transactions on Reliability

## SCHOLARSHIPS AND AWARDS

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China Scholarship Council Scholarship (Joint-Training Ph.D. Program) 2020

## MISCELLANEOUS

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### Teaching Experience

Teaching Assistant – Formal Language and Automata, Peking University 2021

### Professional Memberships

China Computer Federation (CCF) Member 2021 – present

### Skills

- **Language:** Mandarin(Native), English (Fluent)
- **Programming:** Python, Java, Matlab, C
- **Platform:** LaTeX, Pytorch, Conda, Linux