

Chengpeng Wang

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PERSONAL DATA

NAME: Chengpeng Wang
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Homepage: <https://wcpkhust.github.io/>

EDUCATION

| | |
|-----------|---|
| CURRENT | PhD Student in COMPUTER SCIENCE AND ENGINEERING |
| AUG 2019 | The Hong Kong University of Science and Technology |
| JULY 2019 | Master Degree in SOFTWARE ENGINEERING, Tsinghua University |
| AUG 2016 | GPA(CORE COURSES): 3.7/4.0 |
| JULY 2016 | Bachelor Degree in SOFTWARE ENGINEERING, Tsinghua University |
| AUG 2012 | GPA(CORE COURSES): 89.0/100 |
| JULY 2016 | Second Bachelor Degree in MATHEMATICS, Tsinghua University |
| STEP 2013 | GPA(CORE COURSES): 88.0/100 |

PUBLICATIONS

- [1] **Chengpeng Wang**, Gang Fan, Peisen Yao, Fuxiong Pan, and Charles Zhang, Verifying Data Constraint Equivalence in FinTech Systems, In **ICSE 2023: The IEEE/ACM International Conference on Software Engineering**, May, 2023.
- [2] **Chengpeng Wang**, CODESPIDER: Automatic Code Querying with Multi-modal Conjunctive Query Synthesis, In **SPLASH SRC 2022: The ACM SIGPLAN conference on Systems, Programming, Languages, and Applications: Software for Humanity**, Student Research Competition, Dec, 2022.
- [3] **Chengpeng Wang**, Wenyang Wang, Peisen Yao, Qingkai Shi, Jinguo Zhou, Xiao Xiao, and Charles Zhang, Anchor: Fast and Precise Value-Flow Analysis for Containers via Memory Orientation, In **TOSEM 2022: ACM Transactions on Software Engineering and Methodology**, Sept, 2022.
- [4] Rongxin Wu, Minglei Chen, **Chengpeng Wang***, Gang Fan, Jiguang Qiu, and Charles Zhang, Accelerating Build Dependency Error Detection via Virtual Build, In **ASE 2022 : The 37th IEEE/ACM International Conference on Automated Software Engineering**, Oct, 2022.
- [5] **Chengpeng Wang**, Peisen Yao, Wensheng Tang, Qingkai Shi, Charles Zhang: Complexity-Guided Container Replacement Synthesis, In **OOPSLA 2022 : The ACM SIGPLAN Conference on Objected Oriented Programming, Systems, Languages and Applications**, Dec, 2022. (**ACM SIGPLAN Distinguished Paper Award**)
- [6] Gang Fan, **Chengpeng Wang**, Rongxin Wu, Xiao Xiao, Qingkai Shi, Charles Zhang: Escaping Dependency Hell: Finding Build Dependency Errors with the Unified Dependency Graph, In

ISSTA 2020 : The ACM SIGSOFT International Symposium on Software Testing and Analysis, July, 2020.

[7] **Chengpeng Wang**, Yixiao Yang, Han Liu, Le Kang: Statistical API Completion Based on Code Relevance Mining, In **MAINT 2019: International Workshop on Mining and Analyzing Interaction Histories**, 2019:7-13.

INDUSTRY EXPERIENCE

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| AUG 2022 | Research Intern at Ant Group, Shenzhen |
| FEB 2021 | TASK: Work on value flow analysis for programs manipulating containers and database-backed application verification. |

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| AUG 2019 | Research Intern at Sourcebrella, Shenzhen |
| FEB 2019 | TASK: Work on the inconsistency detection of build systems |

TA EXPERIENCE

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| Spring/Fall 2022/2023 | COMP 3021: Java Programming, HKUST, |
| Fall 2021 | COMP 4631: Computer and Communication Security, HKUST |
| Fall 2020 | COMP 3111/H: Software Engineering, HKUST |
| Spring 2020 | COMP 2011: Programming with C++, HKUST |
| Spring 2019 | Haskell: Functional Language Programming, THU |
| Fall 2019 | Automaton and Formal Logic, THU |

PROFESSIONAL ACTIVITIES

Program Committee Member:

- PLDI'23 artifact evaluation
- FSE'22 artifact evaluation
- ISSTA'22 artifact evaluation

Reviewer/Sub-/Co-reviewer:

- ISSTA'23 technical track
- ASE'22 technical track
- ISSRE'21 industrial track
- IEEE Transactions on Software Engineering (TSE)

Volunteer:

- Student Volunteer @ SPLASH 2022
- Student Volunteer @ ISSTA 2019

HONORS AND AWARDS

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| 2016 | Future Academician Scholarship, honored 100 students at Tsinghua University |
| 2014 | Scholarship for Academic Excellence, Tsinghua University |
| 2013 | Scholarship for Academic Excellence, Tsinghua University |