Education

Stanford University

PhD in Computer Science

Sep. 2022 - Present Stanford, CA, US

Sep. 2018 - June 2022

Beijing, China

Peking University

Bachelor of Science in Computer Science (Turing Class)

- 2021 Award for Excellent Research
- 2021 Huirong Li Scholarship
- 2020 John Hopcroft Scholarship

Publications

1. Anjiang Wei, Akash Levy, Pu (Luke) Yi, Robert M Radway, Priyanka Raina, Subhasish Mitra, and Sara Achour PBA: Percentile-Based Level Allocation for Multiple-Bits-Per-Cell RRAM 42nd IEEE/ACM International Conference on Computer Aided Design (ICCAD 2023), pages 1-9, San Francisco, CA, USC, October 2023

2. Pu (Luke) Yi and Sara Achour

Hardware-Aware Static Optimization of Hyperdimensional Computations 38th ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2023), pages 1-30, Cascais, Portugal, October 2023

3. Anjiang Wei, Pu Yi, Zhengxi Li, Tao Xie, Darko Marinov, and Wing Lam Preempting Flaky Tests via Non-Idempotent-Outcome Tests 44th International Conference on Software Engineering (ICSE 2022), pages 1730-1742, Pittsburgh, PA, USA, May 2022

4. Yikai Zhao, Yubo Zhang, Pu Yi, Tong Yang, Bin Cui, and Uhlig Steve The Stair Sketch: Bringing more Clarity to Memorize Recent Events 38th IEEE International Conference on Data Engineering (ICDE 2022), pages 123-130, Virtual Conference, May 2022

5. Pu Yi, Hao Wang, Tao Xie, Darko Marinov, and Wing Lam A Theoretical Analysis of Random Regression Test Prioritization 28th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS 2022), pages 217-235, Munich, Germany, April 2022

6. Wenxi Wang, Pu Yi, Sarfraz Khurshid, and Darko Marinov Initial Results on Counting Test Orders for Order-Dependent Flaky Tests using Alloy 33rd IFIP International Conference on Testing Software and Systems (ICTSS 2021), pages 123-130 (short paper), Virtual Conference, November 2021

7. Pu Yi, Anjiang Wei, Wing Lam, Tao Xie, and Darko Marinov Finding Polluter Tests Using Java PathFinder ACM SIGSOFT Software Engineering Notes 46, 2021 (SEN 2021), 46(3), pages 37-41, July 2021

(Extended paper of abstract presented at Java PathFinder Online Day (JPF 2020), Virtual Workshop, November 2020)

8. Anjiang Wei, Pu Yi, Tao Xie, Darko Marinov, and Wing Lam Probabilistic and Systematic Coverage of Consecutive Test-Method Pairs for Detecting Order-Dependent Flaky Tests 27th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS 2021), pages 270-287, Virtual Conference, March 2021

Presentations

- A Theoretical Analysis of Random Regression Test Prioritization, 28th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS 2022)
- Systematic Bit-Flip Fault Injection and Exploration using Java PathFinder, Java PathFinder Online Day (JPF 2021)
- Finding Polluter Tests Using Java PathFinder, Java PathFinder Online Day (JPF 2020)

Service

- Student Volunteer, ASE 2021, ASE 2020
- Co-reviewer, ICSE SEIP 2022, ASE 2021, ISSTA 2021

Skills

• Extensive programming experience

C, C++, Java, Python, Bash, JavaScript

Contributor of the <u>Java PathFinder</u> project - wrote two extensions <u>PolDet</u> and <u>Bit-Flip</u> injection engine that were merged to the master branch (the Bit-Flip injection engine was an accepted Google Summer of Code (<u>GSoC</u>) project) 2019 Second Prize in Programming Contest at Peking University 2017 Second Prize in National Olympiad in Informatics, China

• Proficiency in English

Ability to write papers and communicate with English-speaking collaborators fluently TOEFL score: 108 (29 reading, 29 listening, 23 speaking, 27 writing); GRE score: 336 (162V, 170Q, 4A)