Pu Yi

Stanford University, US

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Education

Stanford University

PhD in Computer Science

Sep. 2022 – Present

Palo Alto, US

Peking University

 $\mathbf{Sep.}\ \ \mathbf{2018-June}\ \ \mathbf{2022}$

Bachelor of Science in Computer Science ($\underline{Turing\ Class}$)

Beijing, China

- GPA: 3.71/4 (87.6/100), ranking top 20% in the department
- 2021 Award for Excellent Research
- 2021 Huirong Li Scholarship
- 2020 John Hopcroft Scholarship

Publications

1. Anjiang Wei, \mathbf{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 to-appear, Pittsburgh, PA, USA, May 2022

2. Yikai Zhao, Yubo Zhang, \mathbf{Pu} Y
i, 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

3. 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

4. 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

5. 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)

6. 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)