JIALUN CAO

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EDUCATIONAL BACKGROUND

The Hong Kong University of Science and Technology

Sep 2019 – Present

- Department of Computer Science and Engineering
- Supervisor: Shing-Chi CHEUNG
- Research area: deep learning system analysis, testing and debugging

M.S., University of Chinese Academy of Sciences

Sep 2016 - Sep 2019

- State Key Laboratory of Computer Science, Institute of Software, Chinese Academy of Sciences
- Supervisor: Yongjian LI
- Major: Computer Software and Theory
- CGPA: 88.31 (Rank: 2 / 106, Top 2%)

B.S., Shandong University

Sep 2012 - Jun 2016

- School of Mechanical, Electrical & Information Engineering, Computer Science Department
- Major: Digital Media Technology
- CGPA: 89.57 (Rank: 2 / 52, Top 4%)

HONORS AND AWARDS

2019 - 2021	Huawei Fellowship Scholarship
2017	China National Scholarship (Postgraduate, Rank 1/106, Top 1%)
2014	China National Scholarship (Undergraduate, Rank 1/52, Top 2%)
2016 - 2019	First-class Academic Scholarship (Postgraduate, Top 10%)
2012 - 2016	First Prize Scholarship (Top 10%)
2012 - 2016	Merit Student (Top 4%)
2016	Alibaba Tianchi & CCF Contest (Rank 13/2845, Top 0.46%)
2015	1st Place Award: Imagine Cup Competition, International Microsoft Program

PUBLICATIONS (In chronological order)

[USENIX Security 2021]

CCF-A

ReDoSHunter: A Combined Static and Dynamic Approach for Regular Expression DoS Detection.

Yeting LI, Zixuan CHEN, **Jialun CAO**, Zhiwu XU, Qiancheng PENG, Haiming CHEN, Liyuan CHEN

[ICSE 2021] CCF-A

TransRegex: Multi-modal Regular Expression Synthesis by Generate-and-Repair.

Yeting LI, Shuaimin LI, Zhiwu XU, **Jialun CAO**, Zixuan CHEN, Yun HU, Haiming CHEN, Shing-Chi CHEUNG.

[ASE 2020] CCF-A

FlashRegex: Deducing Anti-ReDoS Regexes from Examples.

Yeting LI, Zhiwu XU, **Jialun CAO**, Haiming CHEN, Tingjian GE, Shing-Chi CHEUNG, Haoren ZHAO

[ICDE 2020] CCF-A

FlashSchema: Achieving High Quality XML Schemas with Powerful Inference Algorithms and Large-scale Schema Data.

Yeting LI, Jialun CAO, Haiming CHEN, Tingjian GE, Zhiwu XU, Qiancheng PENG

[DASFFA 2019] CCF-B

A Learning-Based Framework for Automatic Parameterized Verification.

Yongjian LI, Jialun CAO (1st student author), Jun PANG

[ICCD 2019] CCF-B

A Learning-Based Framework for Automatic Parameterized Verification.

Yongjian LI, Jialun CAO (1st student author), Jun PANG

[ASE 2018] CCF-A

L-CMP: an automatic learning-based parameterized verification tool.

Jialun CAO, Yongjian LI, Jun PANG

[QRS 2018] CCF-C

An Automatic Parameterized Verification of FLASH Cache Coherence Protocol.

Yongjian LI, Jialun CAO (1st student author), Kaiqiang DUAN

TEACHING EXPERIENCE

HKUST COMP3021 Java Programming, Spring 2020. Teaching Assistant.

HKUST COMP3021 Java Programming, Fall 2020. Teaching Assistant.