Yanjie Zhao, Ph.D. candidate, expected 2022

🏠 Melbourne, Australia
✉ Yanjie.Zhao@monash.edu
📞 (+61) 413346669
🌐 https://carol233.github.io/
G+ https://scholar.google.com/citations?user=7GNtSFMAAAAJ&hl=en

Research Interest

📑 My work lies in the fields of software engineering and software security. My Ph.D. project aims to learn knowledge from "big code" to solve various programming tasks such as automated API usage recommendations, program patching, and compatibility issue repairing.

Education

09/2019 – Present

📑 **Ph.D. Candidate, Monash University, ranks #40 in the world (USNews 2022)**, Melbourne, Australia.
Software Systems and Cybersecurity, Faculty of Information Technology.
Supervisors: **Dr. Li Li** 🌐 http://lilicoding.github.io/, and
Prof. John Grundy 🌐 https://sites.google.com/site/johncgrundy/.
HumaniSE Lab 🌐 https://www.monash.edu/it/humanise-lab.
SMAT Lab 🌐 https://smat-lab.github.io/.

07/2019 – 09/2019

📑 **Visitor, University of Luxembourg**, Luxembourg.
Interdisciplinary Centre for Security, Reliability and Trust (SnT).
Supervisors: **Prof. Tegawendé F. BISSYAND** 🌐 https://bissyande.github.io/, and **Prof. Jacques Klein** 🌐 https://jacquesklein2302.github.io/.
SnT 🌐 https://wwwen.uni.lu/snt.
TruX Research Group 🌐 https://wwwen.uni.lu/snt/research/trux.

09/2015 – 06/2019

📑 **Engineering Bachelor, Beijing University of Posts and Telecommunications**, Beijing, China.
Information Security, School of Cyberspace Security.
Advisor: **Prof. Haoyu Wang** 🌐 https://howiepku.github.io/.
Ranked first in GPA for 3 consecutive years with 90+ scores (1/91).

Research Publications

Journal Articles

1. **Zhao, Y.**, Li, L., Wang, H., He, Q., & Grundy, J. (2022). Apimatchmaker: Matching the right apis for supporting the development of android apps. *IEEE Transactions on Software Engineering (TSE)*.

2. Kong, P., Li, L., Gao, J., Riom, T., **Zhao, Y.**, Bissyandë, T. F., & Klein, J. (2021). Anchor: Locating android framework-specific crashing faults. *Automated Software Engineering, 28*(2), 1–31.

3. **Zhao, Y.**, Li, L., Sun, X., Liu, P., & Grundy, J. (2021). Icon2code: Recommending code implementations for android gui components. *Information and Software Technology (IST), 138*, 106619.

4. **Zhao, Y.**, Li, L., Wang, H., Cai, H., Bissyandé, T. F., Klein, J., & Grundy, J. (2021). On the impact of sample duplication in machine-learning-based android malware detection. *ACM Transactions on Software Engineering and Methodology (TOSEM), 30*(3), 1–38.

Conference Proceedings

1   Liu, P., **Zhao**, **Y.**, Cai, H., Fazzini, M., Grundy, J., & Li, L. (2022). Automatically detecting api-induced compatibility issues in android apps: A comparative analysis (replicability study). In *The 31st ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2022)*. ***[Co-first author]**.

2   **Zhao**, **Y.**, Li, L., Liu, K., & Grundy, J. (2022). Towards automatically repairing compatibility issues in published android apps. In *The 44th International Conference on Software Engineering (ICSE 2022)*.

3   **Zhao**, **Y.**, Li, L., Sun, X., Liu, P., & Grundy, J. (2022). Code implementation recommendation for android gui components. In *The 44th International Conference on Software Engineering, Demonstrations Track (ICSE 2022)*.

4   Liu, P., Li, L., **Zhao**, **Y.**, Sun, X., & Grundy, J. (2020). Androzooopen: Collecting large-scale open source android apps for the research community. In *Proceedings of the 17th International Conference on Mining Software Repositories (MSR 2020)* (pp. 548–552).

5   **Zhao**, **Y.**, Wang, H., Ma, L., Liu, Y., Li, L., & Grundy, J. (2019). Knowledge graphing git repositories: A preliminary study. In *2019 IEEE 26th International Conference on Software Analysis, Evolution and Reengineering, ERA Track (SANER 2019)* (pp. 599–603).

Skills

Languages	Reading, writing and speaking competencies for Mandarin Chinese and English.
Coding	Java, Python, C/C++, php, R, sql, xml, LaTeX, …
Databases	Mysql, sqlite.
Web Dev	Html, css, JavaScript, Apache Web Server, Tomcat Web Server.
Misc.	Academic research, teaching, training, consultation, LaTeX typesetting and publishing.

Awards

2019	**Monash Graduate Scholarship (MGS)**.
	City of Beijing "Triple-A" Outstanding Student.
2018	**Cyber Security Scholarship of China Internet Development Foundation**, one of the 66 award-winning undergraduates nationwide.
2017	**China National Scholarship (1/91)**.
	Meritorious Winner of MCM/ICM.
	First Prize in Beijing Contest District in CUMCM.
	Second Prize in China National Cryptography Competition.
	Second Prize in Developers Conference of YiBan Development Center of Ministry of Education.
2016	**China National Scholarship (1/91)**.