

研究兴趣

我的研究领域是编程语言和软件工程。我致力于开发能提升软件系统可用性、可靠性和安全性等方面的底层技术。我最近的研究工作主要集中在静态程序分析和编译器优化等方面。我对函数式语言，类型论，类型系统和形式验证等方面也很感兴趣。

教育经历

- 2019/2 至今 **计算机科学与工程 博士**,
澳大利亚, 悉尼, 新南威尔士大学.
导师: 薛京灵
- 2018/7 **计算机科学与技术 工学硕士**,
中国, 北京, 中国科学院计算技术研究所和中国科学院大学.
导师: 李炼
- 2014/7 **天文学 理学学士**,
中国, 北京, 北京师范大学.
导师: 余恒
- 2013/7 **教育技术学 理学学士**,
中国, 北京, 北京师范大学.
导师: 陈青和余胜泉

工作经历

- 2018/7 – 研究助理,
2019/2 中国, 北京, 中国科学院计算技术研究所.
导师: 李炼

(部分) 荣誉和奖项

- 2019 **ACM SIGSOFT Distinguished Paper Award (ASE 2019)**
- 2018 中科院计算所优秀硕士论文
中科院计算所计算机体系结构国家重点实验室优秀学生
- 2014 北京师范大学天文系优秀本科论文
北京师范大学励耘实验班成员

发表文章

- ASE'21 **Context Debloating for Object-Sensitive Pointer Analysis**,
Dongjie He, Jingbo Lu, and Jingling Xue,
The 36th IEEE/ACM International Conference on Automated Software Engineering, ASE 2021.
- SAS'21 **Selective Context-Sensitivity for k-CFA with CFL-Reachability**,
Jingbo Lu, Dongjie He, and Jingling Xue,
The 28th Static Analysis Symposium, SAS 2021.
- ECOOP'21 **Accelerating Object-Sensitive Pointer Analysis by Exploiting Object Containment and Reachability**,
Dongjie He, Jingbo Lu, Yaoqing Gao, and Jingling Xue,
The 35th European Conference on Object-Oriented Programming, ECOOP 2021.

- TOSEM'21 **CFL-Reachability-based Precision-Preserving Acceleration of Object-Sensitive Pointer Analysis**,
*Jingbo Lu, **Dongjie He**, and Jingling Xue*,
ACM Transactions on Software Engineering and Methodology, TOSEM 2021.
- ISSRE'20 **Exposing Android Event-Based Races by Selective Branch Instrumentation**,
*Diyu Wu, **Dongjie He**, Shiping Chen and Jingling Xue*,
The 31st International Symposium on Software Reliability Engineering, ISSRE 2020.
- ISSRE'20 **Correlating UI Contexts with Sensitive API Calls: Dynamic Semantic Extraction and Analysis**,
*Jie Liu, **Dongjie He**, Diyu Wu and Jingling Xue*,
The 31st International Symposium on Software Reliability Engineering, ISSRE 2020.
- ASE'19 **Performance-Boosting Sparsification of the IFDS Algorithm with Applications to Taint Analysis**,
***Dongjie He**, Haofeng Li, Lei Wang, Haining Meng, Hengjie Zheng, Jie Liu, Shuangwei Hu, Lian Li and Jingling Xue*,
The 34th IEEE/ACM International Conference on Automated Software Engineering, ASE 2019.
ACM SIGSOFT Distinguished Paper Award
- ASE'18 **Understanding and Detecting Evolution-Induced Compatibility Issues in Android Apps**,
***Dongjie He**, Lian Li, Lei Wang, Hengjie Zheng, Guangwei Li, and Jingling Xue*,
The 33th IEEE/ACM International Conference on Automated Software Engineering, ASE 2018.

学术服务

Web Chair

- CGO'20 18th ACM/IEEE International Symposium on Code Generation and Optimization
Artifact Evaluation Committee
- OOPSLA'21 2021 ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications
- CGO'22 20th ACM/IEEE International Symposium on Code Generation and Optimization
- ECOOP'22 36th European Conference on Object-Oriented Programming

External Reviewer

OOPSLA'20, ICSE'21, ECOOP'22