

KAIHANG JI

EDUCATION	Peking University (PKU), 2014-2018 Bachelor of Science in Computer Science, advised by Prof. Yao Guo GPA of Core Courses: 3.4/5.0 National University of Singapore (NUS), 2018-Present Ph.D. candidate in Computer Science, advised by Prof. Zhenkai Liang GPA of Core Courses: 4.9/5.0	
RESEARCH INTEREST	System Security: Binary Analysis, Audit Log Analysis Dynamic Binary Taint Analysis, Binary Similarity, Malware Analysis, Audit Log Behavior Abstraction, APT/Intrusion Detection	
PUBLICATION	WATSON: Abstracting Behaviors from Audit Logs via Aggregation of Contextual Semantics (NDSS'21) (Non-first author) FlowMatrix: GPU-Assisted Information-Flow Analysis through Matrix-Based Representation (Conditional Accepted by Usenix Security'22) (First author)	
PROJECT	Co-operated with Kaspersky : Malware authorship attribution (Student Leader)	08/2018-07/2019
ACADEMIC SERVICE	External Reviewer : NDSS'21, NDSS'20, AsiaCCS'20, EuroSP'20	
WORK EXPERIENCE	National University of Singapore (Research Intern) WannaCry Behavior Analysis; Assist implementation of TaintInduce (Accepted by NDSS'19) System and Network Center of Shanghai Library (Research Intern) Knowledge-Graph-based Genealogy Analysis	06/2017-08/2017 02/2016-03/2016
HONORS & STUDENT SERVICE	Honors & Awards: Student Travel Grant for S&P 20, USENIX Security 20 Research Scholarship @ NUS SenseTime Enterprise Reward @ HackPKU2016 Meritorious Award in The Mathematical Contest in Modeling (MCM) 1 st place at University Freshman Debate Competition @ PKU Student Service: CTO of TECC (Technology & Education: Connecting Cultures) Beijing Leader of PKU EECS Debate Team	2020 2018 2016 2015 2015 2017 2016
TEACHING ASSISTANT (TUTORIAL)	Practice in System Security (CS4238) Practice in System Security (CS4238) Practice in System Security (CS4238) Web Security (CS5331) Practice in System Security (CS4238) Web Security (CS5331)	01/2021-05/2021 08/2020-12/2020 01/2020-05/2020 08/2019-12/2019 01/2019-05/2019 08/2018-12/2018
ACADEMIC CONFERENCES	The 29th USENIX Security Symposium The 41st IEEE Symposium on Security and Privacy, Oakland The 22nd International Symposium on Research in Attacks, Intrusions and Defenses, RAID	08/2020 05/2020 10/2019
SKILLS	Program Language C, C++, Assembly language, Python, Java, PHP Applications Binary analysis tools: DynamoRIO, IDA Pro, Angr, Panda, DECAF, etc. Others: TensorFlow, Cuda, Git, Latex, etc.	

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季凯航

教育经历	北京大学	2014-2018
	计算机科学理学学士 导师: 郭耀 核心课程 GPA: 3.4/4.0	
	新加坡国立大学	2018-至今
	计算机科学博士在读 导师: 梁振凯 核心课程 GPA: 4.9/5.0	
研究方向	系统安全: 二进制代码分析、系统日志分析 动态二进制污点分析、二进制代码相似性分析、恶意代码分析、系统日志行为聚类、APT/入侵检测	
学术成果	WATSON: Abstracting Behaviors from Audit Logs via Aggregation of Contextual Semantics (NDSS'21) (非第一作者) FlowMatrix: GPU-Assisted Information-Flow Analysis through Matrix-Based Representation (Conditional Accepted by Usenix Security'22) (第一作者)	
课题项目	卡巴斯基合作项目: 恶意软件作者身份归属分析 校方学生带头人	2018.8 - 2019.7
学术服务	外部审稿人: NDSS' 21, NDSS' 20, AsiaCCS' 20, EuroSP' 20	
实习经历	新加坡国立大学 暑期科研实习	2017.6 - 2017.8
	WannaCry 勒索病毒行为研究; 辅助实现 TaintInduce (发表于 NDSS' 19)	
	上海图书馆系统网络中心 实习研究员	2016.2 - 2016.3
	基于知识图谱的家谱关联数据分析	
荣誉&学生工作	荣誉:	
	学生会议旅行津贴: S&P 20, USENIX Security 20	2020
	研究奖学金 @ 新加坡国立大学	2018
	商汤科技企业奖 @ HackPKU2016	2016
	美国数学建模大赛 M 奖	2015
	北京大学新生辩论赛冠军	2015
	学生工作:	
	北京科技教育交流协会 CTO	2017
	北京大学信息科学技术学院辩论队 领队	2016
授课型助教	Practice in System Security (CS4238)	2021.1-2021.5
	Practice in System Security (CS4238)	2020.8-2020.12
	Practice in System Security (CS4238)	2020.1-2020.5
	Web Security (CS5331)	2019.8-2019.12
	Practice in System Security (CS4238)	2019.1-2019.5
	Web Security (CS5331)	2018.8-2018.12
参会经历	29th USENIX Security Symposium	2020.8
	41st IEEE Symposium on Security and Privacy, Oakland	2020.5
	22nd International Symposium on Research in Attacks, Intrusions and Defenses, RAID	2019.10
个人技能	编程语言: C, C++, 汇编, Python, Java, PHP 二进制代码分析工具: DynamoRIO, IDA Pro, Angr, Panda, DECAF 等 其他: TensorFlow, Cuda, Git, Latex 等	