

SIXUAN DANG

Department of Computer Science

Duke University

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AREA OF INTEREST

Static Analysis, Side-channels, Security & Privacy, Information Flow, Programming Languages

EDUCATION

Duke University

Ph.D. in Computer Science

Department of Computer Science

2023 - present

Advisor: Danfeng Zhang

Penn State University (Moved)

Ph.D. in Computer Science and Engineering

Department of Computer Science and Engineering

2022 - 2023

Advisor: Danfeng Zhang

University of Electronic Science and Technology of China

M.S. in Software Engineering

School of Computer Science and Engineering

Thesis: Research on Personal Credit Incentives in Sharing Economy

2019 - 2022

University of Electronic Science and Technology of China

B.Eng. in Software Engineering

School of Information and Software Engineering

Thesis: Research on Document Template Generation Software based on Natural Language Processing

2015 - 2019

PUBLICATIONS

AGORA: Trust Less and Open More in Verification for Confidential Computing

2025

H. Chen, Q. Zhou, S. Yang, **S. Dang**, X. Han, D. Zhang, F. Zhang, X. Wang

International Conference on Object-Oriented Programming Systems, Languages, and Application (OOPSLA 2025)

Poster: AGORA: Trust Less and Open More in Verification for Confidential Computing

2025

H. Chen, Q. Zhou, S. Yang, **S. Dang**, X. Han, F. Zhang, D. Zhang, X. Wang

Network and Distributed System Security (NDSS) Symposium 2025

CtChecker: a Precise, Sound and Efficient Static Analysis for Constant-Time Programming

2024

Q. Zhou, **S. Dang**, D. Zhang

European Conference on Object-Oriented Programming (ECOOP 2024)

A Behavior-Aware Scheme for Personalized Credit Computing

2022

S. Dang, S. Cao

IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2022)

Dynamic Incentive Mechanism Design for Regulation-Aware Systems

2021

S. Dang, S. Cao, J. Li, X. Zhang

International Journal of Intelligent Systems

JCR: Q1

IF: 8.709

Regulation-as-a-Service: Model Checking for Decision-Making Behaviors in Price-Sensitive Service Systems

S. Dang, S. Cao

IEEE International Conference on Services Computing (SCC 2021)

2021

Code: [Github](#)

A Blockchain-based Access Control and Intrusion Detection Framework for Satellite Communication Systems

S. Cao, S. Dang, Y. Zhang, W. Wang, N. Cheng

Computer Communications

2021

JCR: Q2

IF: 3.167

An Electric Vehicle Charging Reservation Approach Based on Blockchain

S. Cao, S. Dang, X. Du, M. Guizani, X. Zhang, X. Huang

IEEE Global Communications Conference (Globecom 2020)

2020

PATENTS

Routing Node Selection Method and Apparatus for Cross-Blockchain Transaction

S. Cao, Q. Zhang, G. Xiong, S. Dang, R. Chen, T. Chen, X. Zhang

China National Intellectual Property Administration (ZL202110942516.8)

Granted

2021

Insurance Compensation Apparatus and Method based on Hybrid Smart Contracts

S. Cao, Q. Zhang, S. Dang, G. Xiong, H. Chen, J. Yang, S. Niu, Z. Yang

China National Intellectual Property Administration (ZL202110835114.8)

Granted

2021

An Incentive Mechanism Method for Decision-Making

S. Cao, S. Dang, Q. Zhang, G. Xiong, J. Yang, H. Chen, S. Niu, Z. Yang

China National Intellectual Property Administration (ZL202110835181.X)

Granted

2021

TEACHING ASSISTANT

COMPSCI 250D: Computer Architecture

Duke 2024Fall

COMPSCI 390: Programming Language Concepts

Duke 2024Spring

Data Structure and Algorithm Design (Undergraduate Student)

UESTC 2020Spring

Network Programming and Blockchain (International Student)

UESTC 2020Spring

PRESENTATIONS & TALKS

CtChecker: a Precise, Sound and Efficient Static Analysis for Constant-Time Programming

European Conference on Object-Oriented Programming (ECOOP 2024)

Sep 2024

A Behavior-Aware Scheme for Personalized Credit Computing

IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2022)

May 2022

Regulation-as-a-Service: Model Checking for Decision-Making Behaviors in Price-Sensitive Service Systems

IEEE International Conference on Services Computing (SCC 2021)

September 2021

INTERNSHIP

Chengdu Huayp Co., Ltd

2019/03 - 2019/06

Software Engineer

- Understand basics of natural language processing
- Design and implement a legal document template generation system based on NLP

Chengdu Tianheng-uestc Co., Ltd

2018/06 - 2018/09

Full-stack Engineer

- Learn to employ Springboot to build website
- Design and implement the security module of the company's core product with Apache Shiro
- Design and implement a document consistency and correctness checking system

SI-TECH Information Technology Co.,Ltd

2017/06 - 2017/07

Full-stack Engineer

- Design and implement an online music streaming website with native Java servlet and jsp
- Design and implement a distance-based music recommendation system

AWARDS & HONORS

ACM SIGPLAN PAC Grant

2023

PLMW@PLDI 2023 Scholarship from ACM SIGPLAN

2023

Outstanding Graduate from Sichuan Province

2021

Outstanding Graduate from UESTC

2021

National Scholarship from Ministry of Education of China (ranked 4/13)

2021

The First Prize Scholarship from UESTC (ranked 1/256)

2021

The Third Prize Scholarship from UESTC

2019

REVIEWER

USENIX Security 2026, CCS 2025, USENIX Security 2025, Computer Communications, International Journal of Intelligent Systems

PROGRAMMING LANGUAGES AND TOOLS

C/C++, Java, Python, Go, JavaScript, HTML, SQL, LLVM, Linux, Git