

EDUCATION

- **Johns Hopkins University** Maryland, USA
Ph.D. in Computer Science and Engineering Aug. 2018–PRESENT
- **Lehigh University** Pennsylvania, USA
Ph.D. in Computer Science and Engineering; GPA: 4.0/4.0 Aug. 2017–Aug. 2018
- **Lehigh University** Pennsylvania, USA
Master in Computer Science and Engineering; GPA: 3.9/4.0 Aug. 2015–May. 2017
- **Beijing Institute of Technology** Beijing, China
Bachelor of Software Engineering; GPA: 3.4/4.0 Aug. 2011–May. 2015

EXPERIENCE

- **A Large-scale Measurement Study of Browser Fingerprint** Johns Hopkins University, USA
Software Engineer & Web Privacy Research Assistant Jun. 2017–Oct. 2018
 - **Description:** Made a large-scale measurement of browser fingerprint, including popular features introduced by multiple research papers. Collected more than 15,500,788 visiting records from 226 countries, 960,853 pieces of dynamics information belonging to 661,827 browser instances. We analyzed the robustness, uniqueness of each feature and also extracted the dynamics of browser fingerprints and the reason for fingerprints changing.
 - **Github Repository:** https://github.com/Song-Li/dynamic_fingerprinting
- **Deterministic Browser** Lehigh University, USA
Software Engineer & Web Privacy Research Assistant Oct. 2016–May. 2017
 - **Description:** Built the first execution time deterministic browser, DeterFox (deterfox.com), based on Firefox open-source project to defend against timing channel attacks. The paper has been accepted by The ACM Conference on Computer and Communications Security, 2017
 - **Group:** SECLAB in Lehigh University, mentored by Prof. Yinzhi Cao
 - **Github Repository:** <https://github.com/nkdxczh/gecko-dev/tree/deterfox>
- **Cross-browser Fingerprinting** Lehigh University, USA
Software Engineer & Web Privacy Research Assistant Feb. 2016–Jul. 2016
 - **Description:** Implemented the first cross-browser fingerprinting framework that relies on novel hardware and OS level features, such as graphics cards and installed writing scripts. The project paper has been accepted by Network & Distributed System Security Symposium, 2017
 - **Group:** SECLAB in Lehigh University, mentored by Prof. Yinzhi Cao
 - **Github Repository:** https://github.com/Song-Li/cross_browser
- **Freelancer** Taobao, China
Programmer Aug. 2015–Feb. 2016
 - **Description:** Developed more than 20 projects, such as physical simulation of water flow, parallel version of PageRank, the ant colony optimization algorithm and the genetic optimization algorithm for train station management and Tabu Search algorithm for logistics activities
 - **Programming Languages:** C++, Python, JavaScript, R and MATLAB
- **Online Contribution Management System** IBM, China
J2EE Developer Intern in IBM Jul. 2014–Dec. 2014
 - **Description:** Implemented some new features and fixed some bugs in a J2EE based management tool used by the IBM CICS Lv3 team
 - **Implementation:** Java, Spring2 and Hibernate
- **ACM-ICPC Competition** BIT, China
Team member Feb. 2012–Oct. 2013
 - **Description:** Trained for ACM-ICPC competition. Worked on all kinds of algorithms and programming skills
 - **Programming Languages:** C and C++

PROGRAMMING SKILLS

- **C, C++**: : Many kinds of projects and algorithms
- **Python, JavaScript**: : Done some related projects such as web server, machine learning
- **Web & Software Security**: : Trained for security and privacy. Done researches for web privacy
- **Algorithm**: : Well trained for all kinds of basic algorithms

PUBLICATIONS

1) *Deterministic Browser*,

Yinzhi Cao, Zhanhao Chen, **Song Li**, Shujiang Wu,

in the Proceeding of ACM Conference on Computer and Communications Security (CCS), 2017

2) *(Cross-)Browser Fingerprinting via OS and Hardware Level Features*,

Yinzhi Cao, **Song Li** and Erik Wijmans,

in the Proceeding of the Annual Network & Distributed System Security Symposium (NDSS), 2017

PATENT

Improved Solving Method for Quasi-identifier in K-anonymization,

Fusheng Jin, Xiaowei Hu, Zhen Yan, Song Li, Xiangyu Han,

CN104318167A, SIPO (The State Intellectual Property Office of The People's Republic of China), 2015

PROFESSIONAL ACTIVITIES

Research Mentoring

- **Xueqi Ren**: Undergraduate Student, Browser fingerprinting project, 10/2017-now
- **Ningfei Wang**: Graduate Student, Browser fingerprinting project, 10/2017-now
- **Olivia Orrell-Jones**: Undergraduate Student,, Browser fingerprinting project, 05/2017-08/2017
- **Erik Wijmans**: Undergraduate Student, (Cross-)Browser fingerprinting project, 05/2016-08/2016

External Reviewer for

- **WWW**: International World Wide Web Conference, Security and Privacy Track, 2018