Xiao Li, Ph.D. Candidate



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Education

Ph.D. Candidate, University of California, Riverside, USA in Computer Science. GPA:3.88/4

2017 – 2019 M.Sc., University of California, Riverside, USA in Computer Science. GPA: 3.88/4 (Transferred to Ph.D. program)

2013 – 2017 **B.E., Huazhong University of Science and Technology, China** in Information Security. GPA: 3.65/4 (Outstanding Graduates)

Employment History

2019 – Present Graduate student researcher. Department of Computer Science and Engineering, Bourns College of Engineering, University of California, Riverside.

Research Projects

- 2021 Present **Quorum System** Advisor: Prof. Mohsen Lesani
 - 2020 2021 Hamraz: Resilient Partitioning and Replication (will appear in <u>S&P 2022</u>) Advisor: Prof. Mohsen Lesani

Our project enforces end-to-end confidentiality, integrity and availability policies for distributed systems in the face of Byzantine attacks. We present a security-typed object-based language and an information flow type inference system to automatically synthesis trustworthy-by-construction distributed system.

2019 – 2020 Hampa: Solver-aided Recency-Aware Replicated Objects (published in <u>CAV 2020</u>)
Advisor: Prof. Mohsen Lesani

Given a sequential object with its integrity and recency requirements, our project automatically synthesizes a correct-by-construction replicated object that guarantees convergence, integrity and recency properties with as little coordination as possible.

2014 – 2015 Conditional Identity-based Broadcast Proxy Re-Encryption and Its Application to Cloud E-mail Advisor: Prof. Peng Xu

Participated in the implementation of the prototype for a cloud email system based on CIBPRE and obtained <u>3rd Prize</u> in the 8th National College Student Information Security Contest as team leader.

Publications

- Li, X., Houshmand, F., & Lesani, M. (2022). Hamraz: Resilient partitioning and replication. will appear in S&P.
- Li, X., Houshmand, F., & Lesani, M. (2020). Hampa: Solver-aided recency-aware replication, In *International conference on computer aided verification*. Springer.

Awards and Achievements

2019 **Department Fellowship Award**, University of California, Riverside.

2017 Outstanding Graduates, Huazhong University of Science and Technology.

2016 **Quistanding Academic Award**, Huazhong University of Science and Technology.

Awards and Achievements (continued)

Third Prize, in the 8th National College Student Information Security Contest.

2014 **Public Welfare Scholarship**, Huazhong University of Science and Technology.