

RRS Room 726, Department of Computer Science, Hong Kong Baptist University, Hong Kong

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Education

Hong Kong Baptist University

Hona Kona

Ph.D. Candidate in Computer Science Nov. 2014 - Present

Huazhong University of Science and Technology

Wuhan, China

BACHELOR OF ENGINEERING IN ELECTRONICS & INFORMATION ENGINEERING Sep. 2009 – Jun. 2014

Professional Experience

Hong Kong Baptist University

Hong Kong

Sep. 2017 - Dec. 2017

Ph.D. CANDIDATE Nov. 2014 - Present

· Advisors: Prof. Jianliang Xu and Dr. Byron Choi

Thesis: Authenticated Query Processing in the Cloud

Syracuse University Syracuse, NY, USA

· Advisor: Dr. Yuzhe Tang

VISITING SCHOLAR

Project: Strong Secure Data Analytics on Hardware Enclaves

Homebrew Hong Kong

CORE MAINTAINER Feb. 2015 - Feb. 2017

The most popular package manager on macOS

• https://brew.sh

Huazhong University of Science and Technology

Wuhan, China

Sep. 2013 - Jun. 2014 FINAL YEAR PROJECT

• Advisor: Dr. Xiaojun Hei

• Project: Towards SDN-Based Smart Home Router: Design and Implementation

Publications.

C. Xu, C. Zhang, and J. Xu, "vChain: Enabling verifiable boolean range queries over blockchain databases," in *Proceedings of the 2019 ACM SIGMOD International Conference on Management of Data (SIGMOD'19), Amsterdam, Netherlands, Jun. 2019, Full Paper. C. Xu, J. Xu, H. Hu, and M. H. Au, "When query authentication meets fine-grained access control: A zero-knowledge approach," in <i>Proceedings*

of the 2018 ACM SIGMOD International Conference on Management of Data (SIGMOD'18), Houston, TX, USA, Jun. 2018, pp. 147-162, Full Paper.

C. Zhang, **C. Xu**, J. Xu, and B. Choi, "Distributed kNN query authentication," in *Proceedings of the 19th IEEE International Conference on Mobile Data Management (MDM'18*), Aalborg, Denmark, Jun. 2018, pp. 167–176, **Full Paper**. [3]

C. Xu, Q. Chen, H. Hu, J. Xu, and X. Hei, "Authenticating aggregate queries over set-valued data with confidentiality (extended abstract)," in Proceedings of the 34th IEEE International Conference on Data Engineering (ICDE'18), Paris, France, Apr. 2018, pp. 1797–1798, Poster Paper.

C. Xu, Q. Chen, H. Hu, J. Xu, and X. Hei, "Authenticating aggregate queries over set-valued data with confidentiality," *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, vol. 30, no. 4, pp. 630–644, Apr. 2018, Full Paper.

Y. Tang, Z. Xing, C. Xu, J. Chen, and J. Xu, "Lightweight logging over the blockchain for data-intensive applications," in *2nd Workshop on Trusted Smart Contracts at International Conference on Financial Cryptography and Data Security*, Santa Barbara Beach Resort, Curaçao, Mandala Conference on Financial Cryptography and Data Security, Santa Barbara Beach Resort, Curaçao, Mar. 2018, Workshop Paper.

Q. Zhu, H. Hu, C. Xu, J. Xu, and W.-C. Lee, "Geo-social group queries with minimum acquaintance constraints," The VLDB Journal (VLDBJ), vol. 26, no. 5, pp. 709–727, Jul. 2017, Full Paper.

Skills

C/C++, Rust, Java, Python, Ruby, Matlab, ŁTFX, Bash, SQL, Vimscript, Javascript, HTML, CSS **Programming**

Tools Vim, Tmux, Git, macOS, Linux

Languages English, Mandarin

$\mathsf{Awards}_{\mathsf{L}}$

SIGMOD Travel Award, ACM 2018

2018 Postgraduate Research Symposium Best Research Performance Award & Best Poster Award, Hong Kong Baptist University

2018 Yakun Scholarship Scheme for Mainland Postgraduate Students, Hong Kong Baptist University

Excellent Teaching Assistant Performance Award, Hong Kong Baptist University 2017

2015, 2016 Teaching Assistant Performance Award, Hong Kong Baptist University

CHENG XU · CURRICULUM VITAE JANUARY 4, 2019