Cheng XU

PH.D. CANDIDATE

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Education

Hong Kong Baptist University   *Hong Kong*

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*

PH.D. CANDIDATE   *Nov. 2014 - Present*

- Advisors: Prof. Jianliang Xu and Dr. Byron Choi
- Thesis: Verifiable Outsourcing Query Processing

Syracuse University   *Syracuse, NY, USA*

VISITING SCHOLAR   *Sep. 2017 - Dec. 2017*

- Advisor: Dr. Yuzhe Tang
- 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*

FINAL YEAR PROJECT   *Sep. 2013 - Jun. 2014*

- Advisor: Dr. Xiaojun Hei
- Project: Towards SDN-Based Smart Home Router: Design and Implementation

Publications

[1] **C. Xu**, J. Xu, H. Hu, and M. H. Au, "When query authentication meets fine-grained access control: A zero-knowledge approach," in *Proceedings of the 2018 International Conference on Management of Data (**SIGMOD'18**)*, Houston, TX, USA, Jun. 2018, pp. 147–162, **Full Paper**.

[2] 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**.

[4] **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**.

[5] 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, Mar. 2018, **Workshop Paper**.

[6] 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

Programming	C/C++, Java, Python, Ruby, Matlab, LaTeX, Bash, SQL, Vimscript, Javascript, HTML, CSS
Tools	Vim, Tmux, Git, macOS, Linux
Languages	English, Mandarin

Awards

2014 - 2018	4-years PhD Studentship, *Hong Kong Baptist University*
2018	SIGMOD Travel Award, *ACM*
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*
2017	Research Scholarship for Oversea Attachment, *Hong Kong Baptist University*
2017	Excellent Teaching Assistant Performance Award, *Hong Kong Baptist University*
2015, 2016	Teaching Assistant Performance Award, *Hong Kong Baptist University*