Qian Chen

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Education

2011 – 2015 (expected)	**PhD Candidate**, Computer Science, Hong Kong Baptist University, Hong Kong. Advisors: Prof. Jianliang Xu, Dr. Haibo Hu
2007 – 2011	**BS**, Computer Science and Technology, East China Normal University, China.

Experience

2011 – present — Graduate Research Assistant, *Hong Kong Baptist University*, Hong Kong.
- Conducted research on location-based services, authenticated queries, spatial databases and privacy-preserving techniques with Prof. Jianliang Xu and Dr. Haibo Hu.
- Designed the novel private comparison techniques (state-of-the-art), and proposed efficient indexes and light-weight authentication algorithms for widely used spatial queries.
- Published peer-reviewed top conference papers about the research results.

2011 – present — Teaching Assistant, *Hong Kong Baptist University*, Hong Kong.
- Gave tutorials for courses titled "Software Engineering", "Databases System", "Java Programming" and "Computer and Network Security".
- Awarded as *Excellent Teaching Assistant* of the department in 2012 – 2013.

2013 — Developer, *Startup Group "Privatera"*, Hong Kong.
- Assisted in the development of a secure network disk system called "iSafebin".
- Designed the core secure storage system for encrypted files and folders, and developed the key management system for managing individual file keys, group keys and user keys.

2011 – 2012 — Developer, *Hong Kong Baptist University*, Hong Kong.
- Developed the location-based system "VERDICT" featuring the privacy-preserving authentication capability with HTML5, JavaScript, Google Map API v3 and Java.
- Published the system in 29th IEEE International Conference on DATA ENGINEERING.

2009 – 2011 — Student Coach, *East China Normal University*, China.
- Coached undergraduate students for ACM/ICPC training, mainly focused on commonly used data structures and algorithms.
- Organized the programming contest in ECNU.
- Developed new features of the online judge system for programming exercises.

Awards

2014	Yakun Scholarship for Mainland Postgraduate Student, HKBU, on academic merit.
2013	Postgraduate Research Scholarship, Dept. of CS, HKBU.
2013	Best Paper Award, the Research Postgraduate Symposium, Dept. of CS, HKBU.
2012	**First Runner-up Prize**, the ACM Collegiate Programming Contest Hong Kong.
2011	**World Finalist (42th)**, the **ACM/ICPC World Finals**, among 8305 teams representing 2070 universities worldwide.
2011, 2012	Travel Grant Awards, the ACM SIGMOD and IEEE ICDE Conferences.

2011 – 2015	4-year PhD Studentship, Elite Student Scheme, HKBU.
2011	Best Final Year Project, Dept. of CS, ECNU.
2011	Outstanding Graduate Award, ECNU.
2010	Meritorious Winner, the American Mathematical Contest in Modeling.
2010	**Gold Medals (two)**, the ACM/ICPC National Invitation Contests.
2009 – 2010	**Gold Medal (one) and Silver Medals (three)**, the ACM/ICPC Asia Regional Contests.

Selected Publications and Onging Works

2015	**Q. Chen,** H. Hu**,** and J. Xu, *"Authenticated Online Data Integration Services"*, in Proc. of the 2015 ACM SIGMOD International Conference on Management of Data (**SIGMOD'15**), Melbourne, Australia, May/June 2015.
2015	Z. Fan**,** B. Choi, **Q. Chen,** J. Xu**,** H. Hu**,** and S. S. Bhowmick, *"Structure-Preserving Subgraph Query Services"*, IEEE Transactions on Knowledge and Data Engineering (**TKDE**), accepted to appear.
2014	**Q. Chen**, H. Hu, and J. Xu, *"Authenticating Top-k Queries in Location-based Services with Confidentiality"*, Full Paper, in Proc. of the VLDB Endowment (**VLDB'14**), Vol. 7, No. 1, pages: 49-60, September 2014.
2013	H. Hu**,** **Q. Chen,** and J. Xu, *"VERDICT: Privacy-Preserving Authentication of Range Queries in Location-based Services"*, Demo Paper, in Proc. of the 29th IEEE International Conference on DATA ENGINEERING (**ICDE'13**), Brisbane, Australia.
2012	H. Hu, J. Xu**,** **Q. Chen,** and Z. Yang, *"Authenticating Location-based Services without Compromising Location Privacy"*, Full Paper, in Proc. of the 2012 ACM SIGMOD International Conference on Management of Data (**SIGMOD'12**), Arizona, USA.

VLDB, ICDE and SIGMOD are ranked top-3 conferences in databases area by Microsoft Academic Research.

Patent Application

H. Hu, J. Xu, and **Q. Chen**, *"Method and Apparatus for Authenticating Location-based Services without Compromising Location Privacy"*, US Non-Provisional Patent Application No. 13/769,846 .

Skills

Proficient with

languages	Java, C++
technologies	Git, Vim, LATEX, Eclipse, Gnuplot, IPE, MySQL, OSX, Windows, Ubuntu

Have Experience with

languages	C#, Python, JavaScript, Matlab, PHP, HTML, SQL
technologies	Android, Visual Studio, Hadoop, Oracle, SQLserver