

Curriculum Vitae of Reynold Cheng

(A complete version of my CV can be found at <http://www.cs.hku.hk/~ckcheng/CV/Reynold-CV.pdf>)

Name: Reynold Cheng, Chun-Kong (Date of Birth: May 6, 1976)

Academic Qualifications

1. **Ph.D.**, Computer Science, Purdue University, USA Sep 2001–May 2005
2. **M.S.**, Computer Science, Purdue University, USA Sep 2001–Dec 2003
3. **M.Phil.**, Computer Science, University of Hong Kong Sep 1998–Sep 2000
4. **B. Eng.**, Computer Engineering (1st Hon.), University of Hong Kong Sep 1995–Jun 1998
5. *Member*, ACM, IEEE, & ACM Special Interest Group on Management of Data (ACM SIGMOD)

Present academic position:

Associate Professor, Department of Computer Science, University of Hong Kong (2012–present)

Previous academic positions:

Assistant Professor, Department of Computer Science, University of Hong Kong (2008–2012)

Assistant Professor, Department of Computing, Hong Kong Polytechnic University (2005–2008)

Research Areas

The PI is an expert in spatial databases, uncertain databases, and graph databases. He has also developed the ORION system for handling uncertain location data in a scalable manner. Recently, his research interest has been extended to elderly care (e.g., ITF and contract research with ASTRI) and transportation (e.g., collaboration with MTR).

Five most representative publications in recent five years

1. Silviu Maniu, **Reynold Cheng**, and Pierre Senellart. *An Indexing Framework for Queries on Probabilistic Graphs*. In ACM Transactions on Database Systems (**TODS**), 42(2), pp. 1-34, June 2017, ISSN: 0362-5915.
2. Zhipeng Huang, Yudian Zheng, **Reynold Cheng**, Yizhou Sun, Nikos Mamoulis, and Xiang Li. *Meta Structure: Computing Relevance in Large Heterogeneous Information Networks*. In **KDD 2016**, pp. 1595-1604.
3. Yixiang Fang, **Reynold Cheng**, Siqiang Luo, and Jiafeng Hu. *Effective Community Search for Large Attributed Graphs*. In **PVLDB 2016**, 9(12), pp. 1233-1244.
4. Siyu Lei, Silviu Maniu, Luyi Mo, **Reynold Cheng**, and Pierre Senellart. *Online Influence Maximization*. In **KDD**, 2015, pp. 645-654.
5. Xike Xie, **Reynold Cheng**, Man-Lung Yiu, Liwen Sun, and Jinchuan Chen. *UV-Diagram: A Voronoi Diagram for Uncertain Spatial Databases*. In the Very Large Databases Journal (**VLDBJ**), 22(3), pp. 319-344, June 2013.

Five representative publications beyond the recent five-year period

1. Jinchuan Chen, **Reynold Cheng**, Mohammed Mokbel and Chi-Yin Chow. *Scalable Processing of Snapshot and Continuous Nearest-Neighbor Queries over One-Dimensional Uncertain Data*. In **VLDBJ**, Special Issue on Uncertain and Probabilistic Databases, 18(5), pp. 1219-1240, 2009. (Awarded **Research Output Prize** in Dept. of Computer Science, Faculty of Engineering, HKU, 2010).
2. **Reynold Cheng**, Jinchuan Chen and Xike Xie. *Cleaning Uncertain Data with Quality Guarantees*. In **PVLDB** 1(1), pp. 722-735, 2008.
3. Yufei Tao, Xiaokui Xiao and **Reynold Cheng**. *Range Search on Multidimensional Uncertain Data*. In ACM Transactions on Database Systems (**TODS**), 32(3), pp. 15, 2007.
4. **R. Cheng**, D. Kalashnikov, and S. Prabhakar. *Querying Imprecise Data in Moving Object Environments*. In IEEE Transactions on Knowledge and Data Engineering (**IEEE TKDE**), Vol. 16, No. 9, pp. 1112-1127, Sep 2004.
5. **Reynold Cheng**, Dmitri Kalashnikov and Sunil Prabhakar. *Evaluating Probabilistic Queries over Imprecise Data*. In **ACM SIGMOD**, 2003, pp. 551-562.

Others (Awards and Research Activities)

1. William Mong Visiting Research Fellowship 2015-16
2. Recipient of Outstanding Young Researcher Award 2011-12, HKU
3. Recipient of U21 Fellowship 2011
4. 2010 Research Output Prize in HKU Computer Science
5. William Mong Visiting Research Fellowship 2011-12
6. Performance Awards in Hong Kong Polytechnic University (2006 and 2007)
7. Area Chair of ICDE 2017
8. Editorial Board Member of IEEE Transactions on Data Engineering
9. Editorial Board Member of Distributed and Parallel Databases Journal
10. Editorial Advisory Board Member of Information Systems
11. Area Editor of the Encyclopedia of Database Systems, 2nd edition (co-edited by T. Oszu and L. Liu)
12. Vice Chairperson of the ACM Hong Kong Chapter; Guest Editor of IEEE TKDE 2010; Workshop Co-chair of ICDE 2014; Program Co-chair of SSTD 2013; Organizer of VLDB 2013, PAKDD 2011 PhD Symposium, ICDE 2010, MDM 2010, ICDE 2009, ICDM 2007 workshops; Registration Chair of CIKM 2009;
13. PC member in more than 60 international conferences/workshops, including SIGMOD, VLDB, IEEE ICDE, KDD, CIKM, WWW, and ACM SIGSPATIAL GIS
14. Reviewer of top database and data mining journals, including IEEE TODS, VLDBJ, TKDE, IS, IEEE TC, and IEEE ToN