

Stavros Papadopoulos

Curriculum Vitae

PERSONAL INFORMATION

Date of Birth March 08, 1983
Marital Status Single
Nationality Greek

CURRENT POSITION

Ph.D. Candidate, (since September 2005).
Department of Computer Science and Engineering
The Hong Kong University of Science and Technology
Clear Water Bay, Kowloon
Hong Kong SAR, China

Thesis Title "*Authenticated Query Processing*"
Advisor Prof. Dimitris Papadias (www.cse.ust.hk/~dimitris/)
Expected Graduation Date March 15, 2010

EDUCATION

2000 – 2004 **B.Sc. in Computer Science.**
Department of Informatics
Aristotle University of Thessaloniki
Thessaloniki, Greece
First Class Honors (GPA: 8.56, ranked 5th among 120 students)

RESEARCH INTERESTS

Security & Privacy Private information retrieval, query authentication, data anonymization, query processing over encrypted data, access control, implementation of complex cryptographic primitives using contemporary hardware.

Mobile Computing Location-based services, data management for mobile and pervasive computing.

Database Systems Spatio-temporal databases, high-dimensional indexing, time series dimensionality reduction.

Distributed Systems Peer-to-peer systems, cloud computing.

PUBLICATION LIST

- Journal Papers
- S. Papadopoulos, L. Wang, Y. Yang, D. Papadias, P. Karras, "Authenticated multi-step nearest neighbor search", to appear in the *IEEE Transactions on Knowledge and Data Engineering (TKDE)*.
 - S. Papadopoulos, Y. Yang, D. Papadias, "Continuous authentication on relational streams", to appear in the *International Journal on Very Large Data Bases (VLDBJ)*.
 - Y. Yang, S. Papadopoulos, D. Papadias, G. Kollios, "Authenticated indexing for outsourced spatial databases", *International Journal on Very Large Data Bases (VLDBJ)*, 18(3):631-648, 2009.
- Conference Proceedings
- S. Papadopoulos, Y. Yang, S. Bakiras, D. Papadias, "Continuous spatial authentication", in Proc. of the *International Symposium on Spatial and Temporal Databases (SSTD)*, 2009.
 - Y. Yang, D. Papadias, S. Papadopoulos, P. Kalnis, "Authenticated join processing in outsourced databases", in Proc. of the *ACM International Conference on Management of Data (SIGMOD)*, 2009.
 - D. Sacharidis, S. Papadopoulos, D. Papadias, "Topologically sorted skylines for partially ordered domains", in Proc. of the *IEEE International Conference on Data Engineering (ICDE)*, 2009. (full paper)
 - S. Papadopoulos, D. Papadias, W. Cheng, K-L. Tan, "Separating authentication from query execution in outsourced databases", in Proc. of the *IEEE International Conference on Data Engineering (ICDE)*, 2009. (short paper)
 - Y. Yang, S. Papadopoulos, D. Papadias, G. Kollios, "Spatial outsourcing for location-based services", in Proc. of the *IEEE International Conference on Data Engineering (ICDE)*, 2008. (full paper)
 - S. Papadopoulos, Y. Yang, D. Papadias, "CADS: Continuous authentication on data streams", in Proc. of the *International Conference on Very Large Databases (VLDB)*, 2008.
 - S. Papadopoulos, D. Sacharidis, K. Mouratidis, "Continuous medoid queries over moving objects", in Proc. of the *International Symposium on Spatial and Temporal Databases (SSTD)*, 2007.
- Under Submission
- S. Papadopoulos, S. Bakiras, D. Papadias, "pCloud: A distributed system for practical PIR", submitted to the *IEEE Transactions on Dependable and Secure Computing (TDSC)*.
 - S. Papadopoulos, D. Papadias, W. Cheng, K-L. Tan, "SAE: Separating authentication from query execution in outsourced databases", submitted to the *IEEE Transactions on Knowledge and Data Engineering (TKDE)*.

TEACHING EXPERIENCE

- Spring 2006 **Teaching Assistant.**
Course: Design and Analysis of Algorithms
Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

Fall 2005 **Teaching Assistant.**
Course: Design and Analysis of Computer Architectures
Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

WORK EXPERIENCE

2006 – present **Research Assistant.**
Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

2004 – 2005 **Research Project Developer.**
Department of Informatics
Aristotle University of Thessaloniki
Department of Computer Science and Engineering
Research Project: A Target Advertising System over the Web
Funding: The General Secretariat for Research & Technology (www.gsrt.gr)
Involved Company: Tero Ltd (www.tero.gr/en/)

ACADEMIC VISITS

Sep. 2009 **City University of New York**, (www.cuny.edu).
Invited by Assist. Prof. Spiridon Bakiras (web.jjay.cuny.edu/~sbakiras/)
Period of stay: 2 months

Sep. 2008 **Boston University**, (www.bu.edu).
Invited by Assoc. Prof. George Kollios (www.cs.bu.edu/~gkollios/)
Period of stay: 2 months

Jan. 2007 **National University of Singapore**, (www.nus.edu.sg).
Invited by Prof. Beng Chin Ooi (www.comp.nus.edu.sg/~ooibc/)
Period of stay: 1 year

PROFESSIONAL ACTIVITIES

Journal Referee IEEE Transactions on Knowledge and Data Engineering (**TKDE**)

External Referee ACM International Conference on Management of Data (**SIGMOD**)
International Conference on Very Large Data Bases (**VLDB**)
IEEE International Conference on Data Engineering (**ICDE**)
ACM International Conference on Knowledge Discovery and Data Mining (**SIGKDD**)
International Conference on Extending Database Technology (**EDBT**)
IEEE International Conference on Data Mining (**ICDM**)
International Conference on Scientific and Statistical Database Management (**SSDBM**)
International Symposium on Spatial and Temporal Databases (**SSTD**)
ACM International Symposium on Advances in Geographic Information Systems (**GIS**)
International Conference on Mobile Data Management (**MDM**)

International Conference on Management of Data (**COMAD**)
International Workshop on Ranking in Databases (**DBRank**)
ACM Cloud Computing Security Workshop (**CCSW**)

SKILLS

Programming C, C++, Python (excellent knowledge)
Java, HTML, Pearl (very good knowledge)
Lisp (some experience)

OS Windows, Linux

Platforms PlanetLab (www.planetlab.org)

REFERENCES

Prof. Dimitris Papadias (advisor)

Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

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Web site: www.cse.ust.hk/~dimitris/

Prof. Kian-Lee Tan

School of Computing
National University of Singapore

Email: tankl@comp.nus.edu.sg

Web site: www.comp.nus.edu.sg/~tankl/

Assoc. Prof. George Kollios

Department of Computer Science
Boston University

Email: gkollios@cs.bu.edu

Web site: www.cs.bu.edu/~gkollios/