

Christos Koutras

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Research Interests

Stream Processing, Spatial Data Management

Education

- 2018– **PhD Candidate, Computer Science**, *Technische Universiteit Delft (TU Delft)*, Netherlands.
Research Topic: Stream Processing
Supervisors: Asterios Katsifodimos, Christoph Lofi
- 2016–2018 **Master of Philosophy (MPhil), Computer Science**, *The Hong Kong University of Science & Technology (HKUST)*, Hong Kong.
Research Topic: Databases, Data Management
Thesis: Query Estimation Structures in Geo-Social Networks
Supervisor: Dimitris Papadias
- 2009–2015 **Diploma (M.Eng), Electrical and Computer Engineering**, *National Technical University of Athens (NTUA)*, Greece.
GPA : 8.24/10
Major: Computer Science
Thesis: Monitoring Continuous k -Nearest Neighbor Queries Over Moving Uncertain Objects
Supervisors : Kostas Patroumpas, Yannis Papavasileiou
- 2006–2009 **High School Degree, 1st High School of Xanthi**, Greece.
Degree Grade : 19,9/20 (excellent)
Panhellenic Qualifying Examinations GPA : 19664/20000

Experience

- February– May **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.
COMP 3311: Database Management Systems
2018 Responsible for teaching the tutorials of the second half of the course on topics such as : Functional Dependencies and Normalization, Memory Hierarchy and File Structures, Indexing and Hashing, Join Algorithms, Query Processing and Optimization
- September– December **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.
COMP 3711: Design and Analysis of Algorithms
2017 Responsible for designing and grading the course assignments on Greedy Algorithms, Dynamic Programming, Minimum Spanning Trees, Shortest Path Algorithms
- July–August **Visiting Student**, *Oxford University*, United Kingdom.
2017 Worked on Query Optimization with Access Patterns under Integrity Constraints in collaboration with George Konstantinidis
- February– May **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.
COMP 3311: Database Management Systems
2017 Responsible for teaching the tutorials of the first half of the course on topics such as: ER diagrams, Relational Data Model, Relational Algebra, SQL, Functional Dependencies and Normalization
- External Reviewer**, *The Hong Kong University of Science & Technology*, Hong Kong.
IEEE ICDE 2019, ACM SIGMOD 2018, ACM SIGSPATIAL 2017, SSTD 2017

Technical Skills

Basic MATLAB, Quantum GIS, Gephi, PostGre SQL, Git/GitHub

Intermediate \LaTeX , Linux
Advanced JAVA, C/C++

Publications

SSDBM 2017 **Probabilistic k-Nearest Neighbor Monitoring of Moving Gaussians**, *Proceedings of the 29th International Conference on Scientific and Statistical Database Management*, Chicago, Illinois, USA.
Kostas Patroumpas, Christos Koutras

Awards and Scholarships

February **HKUST Postgraduate Scholarship.**
2016 – June Postgraduate scholarship from The Hong Kong University of Science & Technology
2018
April 2008 **Hellenic Youth Parliament.**
Selected as a substitute delegate of the town of Xanthi in Hellenic Youth Parliament through an essay competition

Languages

Greek	Native Speaker	
English	Professional Working Proficiency	<i>CPE Certification, University of Michigan</i>
German	Elementary Proficiency	<i>Zertifikat B1, Goethe Institut</i>

References

Available upon request