

# 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 Vasileiou
- 2006–2009 **High School Degree, 1<sup>st</sup> High School of Xanthi**, Greece.  
Degree Grade : 19,9/20 (excellent)  
Panhellenic Qualifying Examinations GPA : 19664/20000

## Experience

- February– **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.  
May 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– **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.  
December 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– **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.  
May 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++

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## 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

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## 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

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## Languages

Greek **Native Speaker**  
English **Professional Working Proficiency**  
German **Elementary Proficiency**

*CPE Certification, University of Michigan*  
*Zertifikat B1, Goethe Institut*

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## References

Available upon request