

Christos Koutras

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Research Interests

Data Integration, Dataset Discovery, Schema Matching

Education

- 2018– **PhD Candidate, Computer Science**, *Delft University of Technology (TU Delft)*, Netherlands.
Research Topic: Scalable Data Integration
Supervisors: Asterios Katsifodimos, Christoph Lofi, Geert-Jan Houben
- 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
GPA: 3.94/4
- 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, 1st High School of Xanthi**, Greece.
Degree Grade : 19,9/20 (excellent)
Panhellenic Qualifying Examinations GPA : 19664/20000

Experience

- November– **Course Coordinator**, *Delft University of Technology*, Netherlands.
December CSE1500: Web and Database Technology
2019 Responsible for organizing the course's DB lab sessions and teaching tutorials, while also for designing the DB assignments.
- February– **Course Coordinator**, *Delft University of Technology*, Netherlands.
April CSE1505: Information and Data Management
2019 Responsible for organizing the course's lab sessions and teaching tutorials. Also, for designing and grading lab assignments and exam tasks.
- November **Course Coordinator**, *Delft University of Technology*, Netherlands.
2018–January TI2506: Information and Data Management
2019 Responsible for organizing the course's lab sessions and teaching tutorials. Also, for designing and grading lab assignments and exam tasks.
- November **Teaching Assistant**, *Delft University of Technology*, Netherlands.
2018–January CSE1500: Web and Database Technology
2019 Responsible for designing and grading lab assignments for the database part of the course.
- 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–December 2017 **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.
 COMP 3711: Design and Analysis of Algorithms
 Responsible for designing and grading the course assignments on Greedy Algorithms, Dynamic Programming, Minimum Spanning Trees, Shortest Path Algorithms

July–August 2017 **Visiting Student**, *Oxford University*, United Kingdom.
 Worked on Query Optimization with Access Patterns under Integrity Constraints in collaboration with George Konstantinidis

February–May 2017 **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.
 COMP 3311: Database Management Systems
 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.
 IEEE ICDE 2019, ACM SIGMOD 2018, ACM SIGSPATIAL 2017, SSTD 2017

Publications

SeaData Workshop 2020 **REMA: Graph Embeddings-based Relational Schema Matching**, *In Workshop Proceedings of the EDBT/ICDT 2020 Joint Conference*, Copenhagen, Denmark.
 Christos Koutras, Marios Fragkoulis, Asterios Katsifodimos, Christoph Lofi

VLDB Workshop 2019 **Data as a Language: A Novel Approach to Data Integration**, *Proceedings of the VLDB 2019 PhD Workshop*, Los Angeles, California, USA.
 Christos Koutras

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

Technical Skills

Ability to develop and implement algorithms in JAVA, C/C++ and Python. Familiarity with MATLAB, PostGre SQL and Git/GitHub.

Awards and Scholarships

February 2016 – June 2018 **HKUST Postgraduate Scholarship.**
 Postgraduate scholarship from The Hong Kong University of Science & Technology

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