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 Deflt)*, 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–December 2018-present   **Course Coordinator**, *Delft University of Technology*, Netherlands.
CSE1500: Web and Database Technology
Responsible for organizing the course's DB lab sessions and teaching tutorials, while also for designing the DB assignments.

February–April 2018-present   **Course Coordinator**, *Delft University of Technology*, Netherlands.
CSE1505: Information and Data Management
Responsible for organizing the course's lab sessions and teaching tutorials. Also, for designing and grading lab assignments and exam tasks.

February–May 2018   **Teaching Assistant**, *The Hong Kong University of Science & Technology*, Hong Kong.
COMP 3311: Database Management Systems
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 2018/2021, ACM SIGSPATIAL 2017, SSTD 2017

Publications

IEEE ICDE
2021

Valentine: Evaluating Matching Techniques for Dataset Discovery, *In Proceedings of IEEE ICDE 2021*, Chania, Greece.
Christos Koutras, George Siachamis, Andra Ionescu, Kyriakos Psarakis, Jerry Brons, Marios Fragkoulis, Christoph Lofi, Angela Bonifati, Asterios Katsifodimos

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**	*CPE Certification, University of Michigan*
German	**Elementary Proficiency**	*Zertifikat B1, Goethe Institut*

References

Available upon request