George Christodoulou

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Education

Ph.D. in Database Systems	Mar 2020 - Sep 2023
University of Ioannina	Ioannina, Greec
Topic: "Interval Data Management in Main Memory"	
Supervisor: Nikolaos Mamoulis	
M.Sc. in Software Engineering	Sep 2018 - Feb 2020
University of Ioannina	Ioannina, Greece
Thesis: "A Prefix-based Hybrid Solution for Main Memory Indexing"	
Supervisor: Nikolaos Mamoulis GPA: 9.1/10	
Diploma (M.Eng.) in Computer Science & Engineering	Sep 2011 - Sep 2017
University of Ioannina	Ioannina, Greece
Thesis: "Routing Methods with Machine Learning on Delay Tolerant Networks."	
Supervisor: Evangelos Papapetrou GPA: 6.74/10	
Experience	
Postdoctoral Researcher	Oct 2023 – Present
Delft University of Technology	Delft, Netherlands
$\circ~$ Working on stream processing and serverless computing.	
Research Assistant	May 2019 – Sep 2019
Research & Technology Hellas (CERTH)	Thessaloniki, Greece
 worked on designing and developing an Anomaly detector based on machine learning Safe IoT (SerIoT)" project. used Python, PyTorch, Tensorflow. 	g techniques for the "Secure and
Software engineer Intern	Jul 2016 – Aug 2016
Natech S.A.	Ioannina, Greece
 worked on designing and developing a ASP.NET MVC web application. used C , MVC 	
Research Program Scholar	May 2020 - Jul 2023
Organization of Special Account of Research Funds, University of Ioannina	Ioannina, Greece
 Smart City Bus Project (IoT Platform for Transportation) ProximIoT Project (IoT Platform for Proximity Marketing) 	
• Smart City Bus Project (IoT Platform for Transportation)	Ioannina, Greed

Internships

Research Intern University of Mainz (JGU) working with Prof. Panagiotis Bouros. Feb 2022 - Apr 2022 Mainz, Germany Hong Kong University of Science and Technology (HKUST) working with Prof. Dimitris Papadias.

Teaching

University of Ioannina

Department of Computer Science and Engineering

- Fall 2017, 2018, 2019: Networks lab assistant.
- $\circ\,$ Spring 2018: Java lab assistant.
- $\circ\,$ Fall 2020,2021,2022: Python lab assistant.

Student Supervision

Master Theses Supervision

 Giorgos Kotsinas, Querying intervals (working title), Master thesis, Department of Computer Science and Engineering, UoI

Bachelor Theses Supervision

- Jan Raider, A user interface for visualizing interval indexing (working title), Bachelor thesis, Insitute of Computer Science, JGU
- Vasileios Georgoulas, Bachelor thesis, A web application for passenger movement with public transport, Department of Computer Science and Engineering, UoI
- Danae Tsaousi, Bachelor thesis, Visualization and analysis of public transport data, Department of Computer Science and Engineering, UoI
- Penelope Eleftheriadi, Bachelor thesis, Visualization and analysis of public transport data, Department of Computer Science and Engineering, UoI
- Filippos-Apostolos Papachristou, Bachelor thesis, Implementation and evaluation of a main memory temporal index, Department of Computer Science and Engineering, UoI

Publications

International Journals

HINT: A Hierarchical Interval Index for Allen Relationships
 G. Christodoulou, P. Bouros, N. Mamoulis.
 International Journal on Very Large Databases (VLDBJ) 2023.

International Conferences

- HINT on Steroids: Batch Query Processing for Interval Data
 P. Bouros, A. Titkov, G. Christodoulou, C. Rauch, N. Mamoulis.
 International Conference on Extending Database Technology (EDBT) 2024.
- LIT: Lightning-fast In-memory Temporal Indexing
 G. Christodoulou, P. Bouros, N. Mamoulis.
 ACM International Conference on Management of Data (SIGMOD) 2024.
- SmartCityBus A Platform for Smart Transportation Systems.
 G. Bouloukakis, C. Zeginis, N. Papadakis, K. Magoutis, G. Christodoulou,
 C. Kosyfaki, K. Lampropoulos, N. Mamoulis , P. Bouros, N. Mamoulis.
 ACM International Conference on Web Search and Data Mining (WDSM) 2023 (abstract).
- HINT: A Hierarchical Index for Intervals in Main Memory G. Christodoulou, P. Bouros, N. Mamoulis.
 ACM International Conference on Management of Data (SIGMOD) 2022.

Sep 2017 - July 2023 Ioannina, Greece • Efficient And Scalable Management Of Interval Data G. Christodoulou

International Conference on Extending Database Technology PhD Workshop (EDBT PhD Workshop) 2023.

Service

- Reviewer for PAKDD 2021, ICDE 2024, VLDB 2025
- External Reviewer for ICDE 2019-2023, VLDB 2020-2024, SIGMOD 2020, EDBT 2020, DASFAA 2023

Volunteer Experience

• Conference Technical Support Volunteer at EDBT 2023, Ioannina, Greece

Technical Skills

Programming Languages: C/C++ (intermediate), Java (intermediate), Python (intermediate). Other Skills: Complex data management, Complex data indexing, Machine learning techniques, Tensorflow, PyTorch, ASP.NET MVC

Languages

Greek (native speaker), Dutch (native speaker), English (B2 Degree).