

George Christodoulou

 George Christodoulou |  giorgoschristodoulou.github.io |  g.c.christodoulou@tudelft.nl

Education

Ph.D. in Database Systems

Mar 2020 - Sep 2023

University of Ioannina

Ioannina, Greece

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

- 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 techniques for the “Secure and Safe IoT (SerIoT)” project.
- used Python, PyTorch, Tensorflow.

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)

Internships

Research Intern

Feb 2022 - Apr 2022

University of Mainz (JGU)

Mainz, Germany

working with Prof. Panagiotis Bouros.

Research Intern

Hong Kong University of Science and Technology (HKUST)

working with Prof. Dimitris Papadias.

Jan 2023 - Feb 2023

Hong Kong

Teaching

University of Ioannina

Department of Computer Science and Engineering

Sep 2017 - July 2023

Ioannina, Greece

- Fall 2017, 2018, 2019: Networks lab assistant.
- Spring 2018: Java lab assistant.
- 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
- Filippas-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: A Hierarchical Index for Intervals in Main Memory**
G. Christodoulou, P. Bouros, N. Mamoulis.
ACM International Conference on Management of Data (SIGMOD) 2022.
- **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).
- **LIT: Lightning-fast In-memory Temporal Indexing**
G. Christodoulou, P. Bouros, N. Mamoulis.
ACM International Conference on Management of Data (SIGMOD) 2024.

International Workshops

- **Efficient And Scalable Management Of Interval Data**
G. Christodoulou
International Conference on Extending Database Technology PhD Workshop (EDBT PhD Workshop) 2023.

Service

Reviewer for PKADD 2021, ICDE 2024

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

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).