George Christodoulou

in 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 Jan 2023 - Feb 2023
Hong Kong University of Science and Technology (HKUST) *Hong Kong*
working with Prof. Dimitris Papadias.

Teaching

University of Ioannina Sep 2017 - July 2023
Department of Computer Science and Engineering *Ioannina, Greece*

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

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.
- **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).

Last updated: November 21, 2023