

# George Christodoulou

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

## Education

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### 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

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### 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

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### 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

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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.

## Publications

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### International Journals

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

### International Conferences

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- **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

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

## Service

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Reviewer for PKADD 2021, ICDE 2024

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

## Technical Skills

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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

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