



Serafeim (Makis) Papadias



PROFILE

PhD in CS with emphasis on dynamic & streaming graph data management, graph mining, and machine learning. Besides conducting research, during my PhD I advised several students on completing Bachelor and Master theses.



PERSONAL INFORMATION

Phone number: +306987561883
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Web: spapadias.github.io



EDUCATION

06/2019 – 09/2024 BERLIN, GERMANY
Computer Science | Doctor of Philosophy (Ph.D.)
Technical University of Berlin
Thesis: Mining Highly Dynamic Graphs
Advisor: Prof. Volker Markl

02/2016 – 09/2018 HONG KONG, HONG KONG
Computer Science | Master of Philosophy (M.Phil)
Hong Kong University of Science & Technology
Thesis: Massively Parallel Output-optimal Streaming Joins
Advisor: Prof. Ke Yi
GPA : 3.817/4.00

10/2009 – 09/2015 ATHENS, GREECE
Electrical and Computer Engineering | Diploma (M.Eng)
National Technical University of Athens
Thesis: Trajectory-aware Load Adaption in GeoStreaming
Advisor: Kostas Patroumpas
Major: Computer Science, Minor: Mathematics
GPA: 8.73/10 (top 7%)



PUBLICATIONS

05/2024
Overlapping Community Detection on Dynamic Graphs Under Submission
Serafeim Papadias, Grigorios Loukides, Zoi Kaoudi, Volker Markl



PUBLICATIONS

09/2023
Counting Butterflies in Fully Dynamic Bipartite Graph Streams
ICDE 2024
Serafeim Papadias, Zoi Kaoudi, Varun Pandey, Jorge-Arnulfo Quiane-Ruiz, Volker Markl

07/2022
Space-Efficient Random Walks on Streaming Graphs
VLDB 2023
Serafeim Papadias, Zoi Kaoudi, Jorge-Arnulfo Quiane-Ruiz, Volker Markl

08/2020
In-Place Updates in Tree-Encoded Bitmaps
SSDBM 2022
Marcellus Prama Saputra, Eleni Tzirita Zacharatou, Serafeim Papadias, Volker Markl

08/2019
Tunable Streaming Graph Embeddings at Scale
PhD@VLDB 2020
Serafeim Papadias

03/2019
Trajectory-aware Load Adaption for Continuous Traffic Analytics
SSTD 2019
Kostas Patroumpas, Serafeim Papadias

03/2019
Streaming HyperCube: A Massively Parallel Stream Join Algorithm
EDBT 2019
Serafeim Papadias, Zoi Kaoudi, Jorge-Arnulfo Quiane-Ruiz, Volker Markl



WORK EXPERIENCE

06/2019 – 09/2024 BERLIN, GERMANY

Research Associate
Technical University of Berlin

Conducted research on streaming graph data management with Prof. Volker Markl

05/2017 – 09/2018 CLEAR WATER BAY, HONG KONG

Research Assistant
Hong Kong University of Science & Technology

Conducted research on worst-case optimal streaming join algorithms with Prof. Ke Yi



SKILLS

- COMPUTER SKILLS

C++	<div><div></div></div>
Java	<div><div></div></div>
Julia	<div><div></div></div>
Python	<div><div></div></div>
Apache Spark & Flink	<div><div></div></div>
PostgreSQL	<div><div></div></div>
OpenMP	<div><div></div></div>
LaTeX	<div><div></div></div>

- LANGUAGES

Greek (Native)	<div><div></div></div>
English (Professional)	<div><div></div></div>
Spanish (Elementary)	<div><div></div></div>



AWARDS

02/2016

HKUST Postgraduate Studentship
Hong Kong University of Science & Technology

Postgraduate scholarship from Hong Kong University of Science and Technology

11/2009

Great Moment for Education
Eurobank

Eurobank Award for the best student of each high school

03/2008

Distinction in Panhellenic Mathematics Society's Contest
Panhellenic Mathematics Society



CERTIFICATES

10/2024

Learning Julia
LinkedIn

<https://tinyurl.com/muncy5nk>



CERTIFICATES

01/2016

IELTS
British Council

08/2015

Big Data XSeries & Scalable Machine Learning from UC BerkeleyX
edX

Link1: <https://shorturl.at/dhuZY>

Link2: <https://shorturl.at/PcJOe>



STRENGTHS

Problem-Solving

Analytical Thinking

Algorithms

Graphs

Mentorship

Thesis Supervision

Technical Writing