Serafeim (Makis) Papadias

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Education

Feb 2016 – Sep 2018	**Master of Philosophy (MPhil), Computer Science**, *The Hong Kong University of Science and Technology (HKUST)*, Hong Kong Thesis: Massively Parallel Output-optimal Streaming Joins Advisor: Ke Yi GPA : 3.817/4.00
Oct 2009 – Sep 2015	**Diploma (M.Eng), Electrical and Computer Engineering**, *National Technical University of Athens (NTUA)*, Greece Major: Computer Science Thesis: Trajectory-aware Load Adaption in GeoStreaming Advisor: Kostas Patroumpas GPA: 8.73/10 **(top 7%)**

Research Interests

Data Management, Database Systems, Machine Learning, Data Mining, Data Science

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Research & Work Experience

June 2019 – Present	**Research Associate**, *Technical University of Berlin*, Berlin Conducting research on streaming graph data management, with Prof. Volker Markl
May 2017 – Sep 2018	**Research Assistant**, *Hong Kong University of Science and Technology*, Hong Kong Conducted research on worst-case optimal streaming join algorithms, with Prof. Ke Yi
Feb 2017 – May 2018	**Teaching Assistant**, *Hong Kong University of Science and Technology*, Hong Kong COMP 3311: Database Management Systems (Spring 2017) COMP 2011: Introduction to Object-oriented Programming (Fall 2017, Spring 2018)
	External Reviewer, *Hong Kong University of Science and Technology*, Hong Kong SSTD 2017, ALENEX 2018, SIGMOD 2018, SIGMOD 2021, VLDB 2022

Awards and Scholarships

Feb 2016 – Aug 2018	**HKUST Postgraduate Studentship** Postgraduate scholarship from Hong Kong University of Science and Technology
Nov 2009	**Great Moment for Education** Eurobank Award for the best student of each high school
Mar 2007, Mar 2008	**Distinction in Panhellenic Mathematics Society's Contest**

Skills

Programming	C, C++, Java, Scala, Python, Prolog, Pascal, x86/MIPS/AVR Assembly
Other Knowledge	Apache Flink, Apache Spark, PostgreSQL, Quantum GIS, OpenMP, Git/Github
Operating Systems	Linux, MS Windows, Mac OS
Typesetting	LaTeX, MS Word
Languages	**English** (Professional working proficiency), **Greek** (Native or bilingual proficiency)

Publications

VLDB 2023   **Space-Efficient Random Walks on Streaming Graphs (<u>under revision</u>)**, *In 49th International Conference on Very Large Data Bases*, Vancouver, Canada
Serafeim Papadias, Zoi Kaoudi, Jorge-Arnulfo Quiané-Ruiz, Volker Markl

SSDBM 2022   **In-Place Updates in Tree-Encoded Bitmaps**, *In 34th International Conference on Scientific and Statistical Database Management*, Copenhagen, Denmark
Marcellus Prama Saputra, Eleni Tzirita Zacharatou, Serafeim Papadias, Volker Markl

PhD@VLDB 2020   **Tunable Streaming Graph Embeddings at Scale**, *In 46th International Conference on Very Large Data Bases*, Tokyo, Japan
Serafeim Papadias

SSTD 2019   **Trajectory-aware Load Adaption for Continuous Traffic Analytics**, *In 16th International Symposium on Spatial and Temporal Databases*, Vienna, Austria
Kostas Patroumpas, Serafeim Papadias

EDBT 2019   **Streaming HyperCube: A Massively Parallel Stream Join Algorithm**, *In 22nd International Conference on Extending Database Technology*, Lisbon, Portugal
Yuan Qiu, Serafeim Papadias, Ke Yi