

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

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 L^AT_EX, MS Word
- Languages **English** (Professional working proficiency), **Greek** (Native or bilingual proficiency)

Publications

- VLDB 2023 **Space-Efficient Random Walks on Streaming Graphs (under revision)**, *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 (to appear)**, *In 34th International Conference on Scientific and Statistical Database Management*, Copenhagen, Denmark
Marcellus Prama Saputra, Eleni Tziritza 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