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Serafeim (Makis) Papadias

Education

- Jun 2019 – May 2024 (**expected**) **Doctor of Philosophy (Ph.D.), Data Management, TU Berlin, Germany**
Thesis: Dynamic/Streaming Graph Data Management
Advisor: Prof. Volker Markl
- Feb 2016 – Sep 2018 **Master of Philosophy (M.Phil), Data Management, HKUST, Hong Kong**
Thesis: Massively Parallel Output-optimal Streaming Joins
Advisor: Prof. Ke Yi
GPA : 3.817/4.00
- Oct 2009 – Sep 2015 **Diploma (M.Eng), Electrical and Computer Engineering, NTUA, Greece**
Major: Computer Science
Thesis: Trajectory-aware Load Adaption in GeoStreaming
Advisor: Kostas Patroumpas
GPA: 8.73/10 (**top 7%**)

Research Interests

Graphs, Data Management, Data Mining, Graph Machine Learning, Graph Databases

Research & Work Experience

- June 2019 – Present **Research Associate, TU Berlin**
Conducting research on streaming graph data management, with Prof. Volker Markl
- Oct 2019 – Present **Teaching Assistant, TU Berlin**
ROC: Research-Oriented Course on Data Science and Engineering Systems (Fall 2019)
BDAPRO: Big Data Analytics Project (Spring 2020)
DBPRA: Datenbankpraktikum (Spring 2022, Spring 2021)
DW: Data Warehouses and Business Intelligence (Fall 2021, Fall 2022, Spring 2023)
DBSEM: Foundations of Database Systems Seminar (Spring 2021, Spring 2022, Fall 2023)
- May 2017 – Sep 2018 **Research Assistant, HKUST**
Conducted research on worst-case optimal streaming join algorithms, with Prof. Ke Yi
- Feb 2017 – May 2018 **Teaching Assistant, HKUST**
COMP 3311: Database Management Systems (Spring 2017)
COMP 2011: Introduction to Object-oriented Programming (Fall 2017, Spring 2018)
External Reviewer, HKUST & TU Berlin
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 (HKUST)
- 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++, Julia, Java, Scala, Python, Prolog, Pascal, x86/MIPS/AVR Assembly
Other Knowledge Apache Flink & Spark, Deep Graph Library (DGL), PostgreSQL, Quantum GIS, OpenMP
Operating Systems Linux, MS Windows, Mac OS
Typesetting \LaTeX , Markdown, Libre Office
Languages **English** (Professional working proficiency), **Spanish** (Limited Working Proficiency), **Greek** (Native or bilingual proficiency)

Publications

- ICDE 2024 **Counting Butterflies in Fully Dynamic Bipartite Graph Streams (To Appear)**, *In 40th IEEE International Conference on Data Engineering*, Netherlands, Utrecht
Serafeim Papadias, Zoi Kaoudi, Varun Pandey, Jorge-Arnulfo Quiané-Ruiz, Volker Markl
- VLDB 2023 **Space-Efficient Random Walks on Streaming Graphs**, *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