

MARIA DESPOINA SIAMPOU

3650 McClintock Ave ◊ Los Angeles, CA 90089
+213 649 8322 ◊ siampou@usc.edu ◊ linkedin.com/in/msiampou

RESEARCH INTERESTS

Database Systems, Management and Analysis of spatial, spatio-temporal and time series data, Big Data Management and Analysis

EDUCATION

University of Southern California (USC) Ph.D. in Computer Science Advisor: Prof. Cyrus Shahabi	Los Angeles, CA, USA Aug 2022 – Present
National and Kapodistrian University of Athens (NKUA) M.Sc. in Computer Science, <i>GPA: 9.67/10</i> Advisor: Prof. Manolis Koubarakis	Athens, Greece Oct 2020 – Jul 2022
National and Kapodistrian University of Athens (NKUA) B.Sc. in Computer Science, <i>GPA: 8.50/10</i> Advisor: Prof. Manolis Koubarakis	Athens, Greece Oct 2016 – Sep 2020

WORK EXPERIENCE

University of Southern California Graduate Research Assistant • Developing a framework for sub-sequence similarity search under constraints. • Tools/Keywords: Deep Learning, Similarity Search	Los Angeles, CA, USA Aug 2022 – Present
National and Kapodistrian University of Athens Graduate Research Assistant • Worked on Geospatial Interlinking pipelines that aim to associate pairs of geometries based on their topological relations on the Semantic Web. Proposed and implemented a supervised progressive approach that enhanced the performance of the pipeline. • Tools/Keywords: Java, Spark, Supervised Scheduling, Geospatial Interlinking	Athens, Greece Mar 2021 – Jul 2022
Amazon Web Services SDE Intern, Redshift Database • Added support for spatial window functions and implemented <code>ST_ClusterKmeans</code> for 2D and 3D geometries (linestrings, polygons, etc.). • Tools/Keywords: C++, Database Internals, Code Generation	Berlin, Germany Sep 2020 – Feb 2021

SELECTED HONORS & AWARDS

Travel Awards: ICDE, CRA-WP	2023
Graduate Fellowship, USC Viterbi School of Engineering	2022
Tuition Waiver for MSc studies, NKUA Dept. of Computer Science	2020
Scholarship for Top Undergraduates, Greek State Scholarships Foundation	2017/2018/2020
Panhellenic Examination - Award of Excellence, Hellenic Petroleum Industry	2016

PUBLICATIONS

- Hajisafi A., Lin H., Shaham S., Hu H., Siampou M.D., Chiang Y.Y., & Shahabi C. (2023). Learning Dynamic Graphs from All Contextual Information for Accurate Point-of-Interest Visit Forecasting. (*Under Review for SIGSPATIAL*).
- Siampou M.D., Papadakis G., Mamoulis N., & Koubarakis M. (2023) Supervised Scheduling for Geospatial Interlinking. (*Under Review for SIGSPATIAL*).
- Siampou M.D., Karalis N., & Koubarakis M. (2022) Extending YAGO4 Knowledge Graph with Geospatial Knowledge. *GeoLD @ ESWC*.
- Papamichalopoulos M., Papadakis G., Mandilaras G., Siampou M.D., Mamoulis N., & Koubaraki, M. (2022). Three-dimensional Geospatial Interlinking with JedAI-spatial. (*Under Review for Information Systems*).

TEACHING EXPERIENCE

- YS02 - Artificial Intelligence (Undergraduate), NKUA Fall '20/'21
- K08 - Data Structures & Algorithms (Undergraduate), NKUA Spring '21/'22
- K24 - Systems Programming (Undergraduate), NKUA Spring '21

VOLUNTEERING & EXTRACURRICULAR ACTIVITIES

SPLASH Conference, Student Volunteer 2019
ACM Student Chapter NKUA, Organizing Member 2019-20
Undergraduate Lab Assistant for Data Structures & Algorithms, NKUA Spring '17/'18/'19
Undergraduate Lab Assistant for Object Oriented Programming, NKUA Fall '18

SKILLS

Languages	C++, C, Python, Java, Scala, Bash & C Shell
Programming Paradigms	Procedural, Object Oriented, Logic, Functional
Database Languages	SQL, DDL, DML
Database Systems	PostgreSQL, MySQL
Operating Systems	Windows, Linux
Other	Git, Spark