

MARIA DESPOINA SIAMPOU

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RESEARCH INTERESTS

Database Systems, Management and Analysis of Spatial, Spatio-Temporal, and Time Series Data

EDUCATION

University of Southern California (USC)

Aug 2022 – Present

PhD, Computer Science, GPA: 3.74/4.00

Advisor: Cyrus Shahabi

National and Kapodistrian University of Athens (NKUA)

Oct 2020 – Jul 2022

MSc, Computer Science, GPA: 9.67/10 (honors)

Advisor: Manolis Koubarakis

National and Kapodistrian University of Athens (NKUA)

Oct 2016 – Sep 2020

BSc, Computer Science, GPA: 8.5/10 (honors)

Advisor: Manolis Koubarakis

PUBLICATIONS

[1] Hajisafi, A., **Siampou M.D.**, Bi, J., Nocera, L., Shahabi C. “Wearables for Health (W₄H) Toolkit for Acquisition, Storage, Analysis and Visualization of Data from Various Wearable Devices.” ICDE 2024 – Demo Track.

[2] **Siampou M.D.**, Papadakis G., Mamoulis N., Koubarakis M. “Supervised Scheduling for Geospatial Interlinking.” SIGSPATIAL 2023.

[3] Hajisafi, A., Lin, H., Shaham, S., Hu, H., **Siampou, M.D.**, Chiang, Y. Y., Shahabi, C. “Learning Dynamic Graphs from All Contextual Information for Accurate Point-of-Interest Visit Forecasting.” SIGSPATIAL 2023.

[4] **Siampou M.D.**, Karalis N., Koubarakis M. “Extending YAGO₄ Knowledge Graph with Geospatial Knowledge.” Workshop on Geospatial Linked Data @ ESWC 2022.

[5] Papamichalopoulos M., Papadakis G., Mandilaras G., **Siampou M.D.**, Mamoulis N., Koubarakis M. “Three - dimensional Geospatial Interlinking with JedAI-Spatial.” CoRR 2022.

PROFESSIONAL EXPERIENCE

Information Laboratory (InfoLab) – USC

Aug 2022 – Present

Graduate Research Assistant

Los Angeles, USA

- Working on time series representation learning for time series subsequence similarity search.
- Developing trajectory-based routing algorithms to deliver optimal route recommendations.

Artificial Intelligence Team (AI Team) – NKUA

Mar 2021 – Jul 2022

Researcher

Athens, Greece

- Worked on Geospatial Interlinking (GI) pipelines that aim to associate pairs of geometries (i.e., polygons, linestrings) based on their topological relations.
- Developed Supervised Scheduling, a supervised method to optimize GI pipeline performance by prioritizing geometry pairs likely to be related.

Amazon Web Services – Redshift Database

Sep 2020 – Feb 2021

Software Development Intern

Berlin, Germany

- Added support for window functions that operate on spatial data (i.e., points, linestrings, polygons).

HONORS, SCHOLARSHIPS & AWARDS

Travel Grands ACM SIGSPATIAL, IEEE ICDE, CRA-WP	2023
GSG Professional Development Fund Graduate School Government, USC	2023
USC Graduate Fellowship Viterbi School of Engineering	2023
Scholarship for Diligent Students from Disadvantaged Backgrounds Greek State Scholarships Foundation	2017 – 2020
Award for Outstanding Performance in Panhellenic Exams HelleniQ Energy	2016

TEACHING EXPERIENCE

Data Structures & Algorithms , Head Teaching Assistant (undergrad. level)	Spring '22 & '23
Artificial Intelligence , Head Teaching Assistant (undergrad. level)	Fall '20 & '21
Systems Programming , Teaching Assistant (undergrad. level)	Spring '21
Object Oriented Programming , Lab Assistant (undergrad. level)	Fall '18

TECHNICAL 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
Data Management - Analytics	Spark, Hadoop, scikit-learn, Pytorch

LEADERSHIP, SERVICE & EXTRACURRICULAR ACTIVITIES

External Reviewer , IEEE ICDE	2024
USC WISE Mentorship Program , Student Mentor	2023
Student Volunteer , IEEE ICDE, ACM SIGSPATIAL	2023
ACM Student Chapter NKUA , Organizing Member	2020