

# MARIA DESPOINA SIAMPOU

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## RESEARCH INTERESTS

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

## EDUCATION

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### University of Southern California (USC)

*Aug 2022 – Present*

PhD, Computer Science  
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

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- [1] Hajisafi, A., **Siampou M.D.**, Bi, J., Nocera, L., Shahabi C. “Wearables for Health (W<sub>4</sub>H) 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 YAGO<sub>4</sub> 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

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### Information Laboratory (InfoLab) – USC

*Aug 2022 – Present*

*Graduate Research Assistant*

*Los Angeles, USA*

- Working on time series representation learning for time series similarity search.
- Developing data-driven algorithms for trajectory-based routing 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

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

## TEACHING EXPERIENCE

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<b>Data Structures &amp; Algorithms</b> , Head Teaching Assistant	Spring '22 & '23
<b>Artificial Intelligence</b> , Head Teaching Assistant	Fall '20 & '21
<b>Systems Programming</b> , Teaching Assistant	Spring '21
<b>Object Oriented Programming</b> , Lab Assistant	Fall '18

## TECHNICAL STRENGTHS

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<b>Languages</b>	C++, C, Python, Java, Scala, Bash & C Shell
<b>Programming Paradigms</b>	Procedural, Object Oriented, Logic, Functional
<b>Database Languages</b>	SQL, DDL, DML
<b>Database Systems</b>	PostgreSQL, MySQL
<b>Data Management - Analytics</b>	Spark, Hadoop, scikit-learn, Pytorch