

Maria Despoina Siampou

PHD STUDENT · COMPUTER SCIENCE

RTH 323, 3710 McClintock Ave, Los Angeles, CA 90089

✉ siampou@usc.edu | 🏠 msiampou@github.io | 🌐 m.siampou

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)

PHD COMPUTER SCIENCE

- Advisor: Prof. Cyrus Shahabi

Los Angeles, USA

Aug. 2022 - Present

National and Kapodistrian University of Athens (NKUA)

MSC COMPUTER SCIENCE, GPA: 9.67/10

- Thesis: "Supervised Progressive Geospatial Interlinking"
- Advisor: Prof. Manolis Koubarakis

Athens, Greece

Sept. 2020 - Jul. 2022

National and Kapodistrian University of Athens (NKUA)

BSC COMPUTER SCIENCE, GPA: 8.50/10

- Thesis: "Extending YAGO4 Knowledge Graph with Geospatial Knowledge"
- Advisor: Prof. Manolis Koubarakis

Athens, Greece

Sept. 2016 - Sept. 2020

Professional Experience

University of Southern California (USC)

GRADUATE RESEARCH ASSISTANT

- Time Series Data Management

Los Angeles, USA

Aug. 2022 - Present

National and Kapodistrian University of Athens (NKUA)

RESEARCHER, SELF-EMPLOYED

- 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.

Athens, Greece

Mar. 2021 - Jul. 2022

Amazon Web Services

SDE INTERN, REDSHIFT DATABASE

- Implementation of spatial window functions.
- Mentors: Dr. Menelaos Karavelas, Dr. Ioanna Tsalouchidou, Dr. Eric Biagioli

Berlin, Germany

Sept. 2020 - Feb. 2021

Publications

CONFERENCE PUBLICATIONS

- [C1] **Siampou M.D.**, Papadakis G., Mamoulis N., Koubarakis M. "Supervised Scheduling for Geospatial Interlinking." In 31st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL '23).
- [C2] 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." In 31st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL '23).
- [C3] **Siampou M.D.**, Karalis N., Koubarakis M. 2022. *Extending YAGO4 with Geospatial Knowledge*. In 5th International Workshop on Geospatial Linked Data at ESWC 2022 (GeoLD '22).

IN REVIEW

[R1] **Siampou M.D.**, Nocera L., Oh J., Smith B., Shahabi C., “Towards Detecting Neuromotor Developmental Disabilities in Infants using Motifs from Wearable Sensors Data.”, 2023.

PREPRINTS

[P1] Papamichalopoulos M., Papadakis G., Mandilaras G., **Siampou M.D.**, Mamoulis N., Koubarakis M. *Three-dimensional Geospatial Interlinking with JedAI-Spatial*, 2022.

Awards, Fellowships, & Honors

2023	Graduate Fellowship , Viterbi School of Engineering	Los Angeles, USA
2022	Travel Awards , ICDE '22, CRA-WP '22	Los Angeles, USA
2021	MSc Tuition Waiver , National and Kapodistrian University of Athens	Athens, Greece
2019/18/17	Scholarship for Top Undergraduates , Greek State Scholarships Foundation	Athens, Greece
2016	Proud of Youth , HelleniQ Energy (<i>awarded for top panhellenic exam performance</i>)	Athens, Greece

Teaching Experience

Spr. '22/'21	Data Structures & Algorithms , Head Teaching Assistant, (Undergraduate Level)	NKUA, Greece
Fall '21/'20	Artificial Intelligence , Teaching Assistant, (Undergraduate Level)	NKUA, Greece
Spr. '21	Systems Programming , Teaching Assistant, (Undergraduate Level)	NKUA, Greece

Leadership, Service & Extracurricular Activities

SERVICE AND OUTREACH

2023	USC Hellenic Graduate Student Association , Founder & President	Los Angeles, USA
2022	IEEE ICDE Conference , Student Volunteer	Anaheim, USA
2020	ACM Student Chapter NKUA , Organizing Member	Athens, Greece
2019	ACM SIGPLAN SPLASH Conference , Student Volunteer	Athens, Greece

MEMBERSHIPS

ACM, ACM-W