Maria Despoina Siampou

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Education

University of Southern California

Los Angeles, USA Aug 2022 – Present

PhD in Computer Science
• Advisor: Prof. Cyrus Shahabi

National & Kapodistrian University of Athens

Athens, Greece

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

Oct 2020 – Jul 2022

• Thesis: Supervised Progressive Geospatial Interlinking

• Advisor: Prof. Manolis Koubarakis

National & Kapodistrian University of Athens

Athens, Greece

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

Sep 2016 - Seo 2020

• Thesis: Extending YAGO4 with Geospatial Knowlendge

• Advisor: Prof. Manolis Koubarakis

Professional Experience

University of Southern California

Los Angeles, USA

Aug 2022 – Present

• Member of InfoLab, led by Prof. Cyrus Shahabi

• Working on spatial data representation techniques for spatial reasoning

National & Kapodistrian University of Athens

Athens, Greece

Graduate Research Assistant

Graduate Research Assistant

Mar 2021 – Jul 2022

- Member of AI Team, led by Prof. Manolis Koubarakis
- Worked on Geospatial Interlinking pipelines, to join pairs of geometries (i.e., polygons) based on their topological relationships.

Amazon Web Services, Redshift Database

Berlin, Germany

Software Development Engineer Intern

Aug 2020 – Feb 2021

• Added support for spatial window functions and implemented ST_ClusterKMeans.

Conference Publications

- [7] M.D. Siampou, J. Krumm, C. Anastasiou, and C. Shahabi. Trajectory-based routing: No maps, no traffic! In *preperation*, 2024
- [6] M.D. Siampou*, J. Li*, J. Krumm, C. Shahabi, and L. Hu. Poly2Vec: Polymorphic encoding of geospatial objects for spatial reasoning with deep neural networks. In *Under Review*, 2024
- [5] A. Hajisafi, M.D. Siampou, J. Bi, L. Nocera, and C. Shahabi. Wearables for health (w4h) toolkit for acquisition, storage, analysis and visualization of data from various wearable devices. In *IEEE ICDE Demo Track*, 2024
- [4] M.D. Siampou, L. Nocera, J. Oh, B. Smith, and C. Shahabi. An algorithmic approach for detecting neuromotor developmental disabilities in infants from wearable sensor data. In *IEEE EMBC*, 2024
- [3] M.D. Siampou, G. Papadakis, N. Mamoulis, and M. Koubarakis. Supervised scheduling for geospatial interlinking. In *ACM SIGSPATIAL*, 2023

	[2] A. Hajisafi, H. Lin, S. Shaham, H. Hu, M.D. Siampou, YY. Chiang, and C. Shahabi. Learning dynamic graphs from all contextual information for accurate point-of-interest visit forecasting. In <i>ACM SIGSPATIAL</i> , 2023 [1] M.D. Siampou, N. Karalis, and M. Koubarakis. Extending YAGO4 knowledge graph with geospatial knowledge. In <i>GeoLD@ ESWC</i> , 2022		
Journal Publications	M. Papamichalopoulos, G. Papadakis, G. Mandilaras, M.D. Siampou, N. Mamoulis, and M. Koubarakis. Three-dimensional geospatial interlinking with jedai-spatial. <i>Journal of Web Semantics</i> , 2024		
Honors and	USC Graduate Fellowship, Viterbi School of Engineering		2023
Scholarships	Accepted into CRA-WP Grad Cohort (with funding to attend and prese	ent)	
	NSF-funded Workshop		2023
	Scholarship for Diligent Students from Disadvantaged Backgrounds, <i>Greek State Scholarship Foundation (awarded for 3 years)</i>	2017	- 2020
	Award for Outstanding Performance in Panhellenic Exams,	2017	2020
	HelleniQ Energy, Greece		2016
Grants	WiSE Travel Grand for Graduate Students and Postdoctoral Scholars (\$	\$700)	2024
Grants	NSF Travel Award to attend IEEE ICDE (\$1300)	,,,,,,	2024
	NSF Travel Award to attend ACM SIGSPATIAL (\$1200)		2023
	USC GSG Professional Development Fund (\$500)		2023
	NSF Travel Award to attend IEEE ICDE (\$450)		2023
Teaching	Teaching Assistant, University of Southern California		
Experience	CSCI 587: Geospatial Information Management	Fal	1 2024
	Teaching Assistant, National & Kapodistrian University of Athe	ns	
	-	Spring 202	21 / 22
	CS - YS02: Artificial Intelligence I	Fall 202	20 / 21
	CS - K24: Systems Programming	Spring	g 2021
Skills	Technical Skills : C++, C, Python, Java, SQL, PyTorch, scikit-learn, pandas, NumPy, Docker, Git		
	Languages: English (proficient), German (basic), Greek (native)		
Service and Outreach	External Reviewer IEEE ICDE 2024		
	 Leadership and Other Professional Activities Research Mentor, USC Viterbi's Summer High School Intensive in Next gineering (SHINE) Program Graduate Student Mentor, USC WiSE Mentorship Program Organizing Member, ACM Student Chapter, University of Athens 	-Generatio	on En- 2024 2024 2019

Professional Memberships

IEEE (Graduate Student Membership), ACM (Student Membership), ACM-W