Thanasis Georgiadis
Software Engineer

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SUMMARY

I earned my integrated MSc in Computer Science and Engineering from the University of Ioannina in 2021, specializing in big data management and parallel/distributed programming. Shortly after, I began my PhD, focusing on data management, distributed systems, parallel programming, query optimization, and database research.

EXPERIENCE

ARCHIMEDES unit of Athena Research Center, Athens   *July 2024 – Present*
Research Intern
- Natural Language Processing for spatial inference.
- Retrieval Augmented Generation and Database Systems for AI.

MESA: In-memory Spatial Analytics Made Scalable, H.F.R.I.   *September 2022 – Present*
Doctoral Researcher
- Built a prototype distributed spatial data management system.
- Implemented novel techniques for scalable query processing.
- Designed and implemented distributed features from the ground up.

Huawei Technologies R&D (UK) Ltd, Edinburgh   *September 2023 – February 2024*
Research Intern
- Developed query features for a production-grade graph database.
- Alleviated concurrency and scalability related challenges in multi-threaded environments.

DIONI: Computing Infrastructure for Big-Data Processing and Analysis   *October 2021 – August 2022*
Doctoral Researcher
- Developed a prototype algorithm for scalable polygon join queries.
- Researched grid partitioning techniques for distributed systems.

EDUCATION

Department of Computer Science & Engineering, University of Ioannina, Greece   *July 2021- August 2025 (expected)*
PhD in Scalable Big Spatial Data Management
- Big data management in distributed environments.
- Scalable query processing.
- Spatial data management.

Department of Computer Science & Engineering, University of Ioannina, Greece   *Sept 2015 – June 2021*
Integrated Master of Science in Computer Science & Engineering
- Specialized in distributed big data management.
- Thesis: Development of a Big Spatial Data Management System.

PUBLICATIONS

- T. Georgiadis and N. Mamoulis, Scalable Geospatial Interlinking of Complex Entities, 2024. (under submission)

- T. Georgiadis, E. Tzirita Zacharatou and N. Mamoulis, Raster Interval Object Approximations for Spatial Intersection Joins, 2024. The VLDB Journal

- T. Georgiadis and N. Mamoulis, Raster Intervals: An Approximation Technique for Polygon Intersection Joins, Proceedings of the ACM Conference on Management of Data (SIGMOD), Seattle, WA, June 2023.

- T. Georgiadis, Scalable Query Processing on Big Spatial Data, EDBT 2023 PhD Workshop, Ioannina, Greece, March 2023.

TECHNICAL SKILLS

Programming Languages	C/C++ (Expert), Python (Advanced), C# (Intermediate), Java (Intermediate)
Technologies & Tools	OpenMP, MPI, CUDA, Bash, GIS, git

OTHER

Languages	Greek (native), English (fluent), French (basic)
Personal Interests	Guitar, Painting, Board games