Vasilis Sarris

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Summary

PhD student in Computer Science at the University of Pittsburgh, focused on database management systems (DBMS), specifically optimizing join algorithms for cloud environments. This specialization provides a strong understanding of the entire data processing pipeline, from remote data ingestion to query optimization / execution in disaggregate environments.

Education

University of Pittsburgh — Pittsburgh, PA, USA
PhD, Computer Science — *Aug 2023 — Present*
- Advisor: Panos Chrysanthis

University of Pittsburgh — Pittsburgh, PA, USA
MSc, Computer Science — *Aug 2021 — Apr 2023*

University of Pittsburgh — Pittsburgh, PA, USA
BSc, Computer Science — *Jan 2019 — Apr 2022*

Professional Experience

Researcher — Dec 2020 — Present
Advanced Data Management Technologies Lab — *Pittsburgh, PA, USA*

Researcher — Jan 2021 — Apr 2021
Kovashka Lab — *Pittsburgh, PA, USA*

Research Assistant — Apr 2019 — Dec 2020
Learning Imaging & Family Experience Lab — *Pittsburgh, PA, USA*

Visiting English Teacher — Jul 2019 — Jul 2020
東澳國民小 (Dong'ao Elementary) — *Nan'ao, Yilan, Taiwan*

Teaching Experience

- Principles of Database Systems (University of Pittsburgh, CS2550) – Spring 2025
- Intro to Database Management Systems (University of Pittsburgh, CS1555/2055) – Spring 2025
- Intro to Database Management Systems (University of Pittsburgh, CS1555/2055) – Fall 2024
- Introduction to Computing for Scientists (University of Pittsburgh, CS0011) – Fall 2024
- Algorithms and Data Structures 1 (University of Pittsburgh, CS0445) – Summer 2024
- Algorithms and Data Structures 2 (University of Pittsburgh, CS1501) – Summer 2024
- Algorithms and Data Structures 2 (University of Pittsburgh, CS1501) – Spring 2024
- Algorithms and Data Structures 2 (University of Pittsburgh, CS1501) – Fall 2023

Publications

[1] V. E. Sarris, C. P. Sweeney, S. M. Linton, B. T. Nixon, P. K. Chrysanthis, and C. Costa, "GIO.G: A Generator for Indoor-Outdoor Graphs to Simulate and Analyze Urban Environments," in *25th IEEE International Conference on Mobile Data Management, MDM 2024, Brussels, Belgium, June 24-27, 2024*, IEEE, 2024, pp. 243–246. doi: 10.1109/MDM61037.2024.00050.

[2] V. E. Sarris, P. K. Chrysanthis, and C. Costa, "Recommending the Least Congested Indoor-Outdoor Paths without Ignoring Time," in *Proceedings of the 18th International Symposium on Spatial and Temporal Data, SSTD 2023, Calgary, AB, Canada, August 23-25, 2023*, ACM, 2023, pp. 121–130. doi: 10.1145/3609956.3609969.

[3] V. E. Sarris, C. Costa, and P. K. Chrysanthis, "ASTRO-K: Finding Top-k Sufficiently Distinct Indoor-Outdoor Paths," in *23rd IEEE International Conference on Mobile Data Management, MDM 2022, Paphos, Cyprus, June 6-9, 2022*, IEEE, 2022, pp. 372–377. doi: 10.1109/MDM55031.2022.00083.

Service

To the University

- SCI Global Graduate Ties Mentor – 2022

To the Profession

- External Reviewer – International Conference on Extending Database Technology (EDBT) 2025
- External Reviewer – International Conference on Distributed and Event-based Systems (DEBS) 2024
- External Reviewer – Journal on Future Generation Computer Systems (FGCS) 2024

Invited Talks

- "Overview of CAPRIO & Astro-C", University of Pittsburgh UG Research Symposium, Sep 2023
- "Going From An Idea To An Implementation", University of Pittsburgh CS UG Research Event, Mar 2025