

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 <i>PhD, Computer Science</i> <ul style="list-style-type: none">Advisor: Panos Chrysanthis	Pittsburgh, PA, USA <i>Aug 2023 — Present</i>
University of Pittsburgh <i>MSc, Computer Science</i>	Pittsburgh, PA, USA <i>Aug 2021 — Apr 2023</i>
University of Pittsburgh <i>BSc, Computer Science</i>	Pittsburgh, PA, USA <i>Jan 2019 — Apr 2022</i>

EXPERIENCE

Researcher Advanced Data Management Technologies Lab <ul style="list-style-type: none">Extended work in Indoor-Outdoor Navigation by creating and implementing multiple novel path finding algorithms.Wrote and published multiple first-author papers on these novel algorithms.	Dec 2020 — Present <i>Pittsburgh, PA, USA</i>
Researcher Kovashka Lab <ul style="list-style-type: none">Explored the effects of pre-processing the input of object recognition models (ResNet, AlexNet, etc.) in such a way that was more akin to the visual cortex.Performed domain generalization benchmarks on these models using the standard and modified inputs.	Jan 2021 — Apr 2021 <i>Pittsburgh, PA, USA</i>
Research Assistant Learning Imaging & Family Experience Lab <ul style="list-style-type: none">Developed a robust, user-friendly, graph-based fMRI analysis pipeline for the lab's PhD students.Developed multiple web-based tasks for large-scale, NIH-funded psychology studies.	Apr 2019 — Dec 2020 <i>Pittsburgh, PA, USA</i>
Visiting English Teacher 東澳國民小 (Dong'ao Elementary) <ul style="list-style-type: none">Taught English to 100+ elementary school children, grades 1st-5th.	Jul 2019 — Jul 2020 <i>Nan'ao, Yilan, Taiwan</i>

SELECTED 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](https://doi.org/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](https://doi.org/10.1145/3609956.3609969).

SKILLS / SELECTED COURSEWORK

- Programming Languages:** C, C++, Java, Python, Scala
- Development Tools:** CMake, GDB/LLDB, Git, Google Test, Intel TBB, Make, perf
- Courses (Grad):** Design & Analysis of Algorithms, Adv. Database Systems, Seminars on AI, CV, & IoT
- Courses (Undegrad):** Algorithms & Data Structures, Database Management Systems, Graph Theory