MOE KAYALI

Graduating PhD in AI & Data Management looking for full-time employment starting June 2026

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Education

PhD in Computer Science	**2020 - June 2026**
Bachelor of Science with Honors in Computer Science	**2016 - 2020**

Both: University of Washington, Seattle

Research Publications (Selected)

CHORUS: Foundation Models for Unified Data Discovery & Exploration *VLDB 2024*

🏆 **Best Paper (Runner Up)**

Moe Kayali, Anton Lykov, Ilias Fountalis, Nikolaos Vasiloglou, Dan Olteanu, Dan Suciu

Query Blueprints: Addressing Schema Heterogeneity for Agents and Users
Under Submission to VLDB 2026

Mind the Data Gap: Bridging Large Language Models to Enterprise Data Integration *CIDR 2025*
Moe Kayali, Fabian Wenz (TUM), Nesime Tatbul (Intel & MIT), Cagatay Demiralp (Amazon)

Zero-shot Configurations for Budget-constrained AutoML *AutoML@KDD 2022*
Moe Kayali, Chi Wang (while at Microsoft Research)

Color: A Framework for Applying Graph Coloring to Subgraph Cardinality Estimation *VLDB 2025*
Kyle Deeds, Diandre Sabale, Moe Kayali**,** Dan Suciu

Quasi-Stable Coloring for Graph Compression *VLDB 2023*
Moe Kayali, Dan Suciu

Full list of 10 papers on <u>Google Scholar</u>

Work Experience

Aryn Inc.—*Research Scientist Intern* Oct 2023-Jan 2024
Commercialized and integrated CHORUS algorithms into the company's principal RAG product

Microsoft Gray Systems Laboratory—*Research Scientist Intern* Jun 2022-Sep 2022
Built evaluation of competing ML approaches for auto-tuning SQL Server query optimizer

Microsoft Research—*Research Scientist Intern* Jun 2021-Sep 2021
Developed zero-shot AutoML model selection, deployed to MS's open-source FLAML library

Patent

Methods for Facilitating Cybersecurity Risk Management (US patent 17/420,343)
- *Ben Ransford, Andrew Deorio, Henrik Holm, **Moe Kayali***
ML approach for identifying healthcare equipment security risks, now utilized by NIST standard

Fellowships & Awards

- **Allen School Leadership Award,** 2024
- **Herbold Fellowship**, 2021-2022
- **Outstanding Senior Award**, Allen School of Computer Science, 2020
- **Outstanding Undergraduate Researcher** (Honorable Mention), U.S. CRA, 2020