

Saeed Fathollahzadeh

Curriculum Vitae

CONTACT INFO

Current Location: Database Lab, 2155 Rue Guy, 10th Floor, Montreal, Canada.

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I'm Available at:

Homepage: <https://fathollahzadeh.github.io>

Github: <https://github.com/fathollahzadeh>

dblp: <https://dblp.uni-trier.de/pers/hd/f/Fathollahzadeh:Saeed>

Google Scholar: <https://scholar.google.com/citations?user=zIODCOoAAAAJ&hl=en>

EDUCATION

- **Ph.D. in Computer Science, Concordia University** Montreal, Canada
Supervisors: Prof. [Matthias Boehm](#), and Prof. [Essam Mansour](#) Sep. 2023–Exp. Nov. 2025
- **Ph.D. in Computer Science, Graz University of Technology (TU Graz)** Graz, Austria
Supervisor: Prof. [Matthias Boehm](#) (transferred to Concordia University) 2021–Sep. 2023
- **M.Sc. in Software Engineering, Iran University of Science and Technology** Tehran, Iran
Thesis: A Middleware for Distributed Processing of Complex Events 2012–2014
Supervisor: Prof. [Mohsen Sharifi](#)

WORK EXPERIENCE

- **Know Center (<https://know-center.at>)** Graz, Austria
○ Working on ReWaste F (Recycling and Recovery of waste for Future) Project 2021–Sep. 2023
- **Free University of Bolzano (DBS Group, <https://dbs.inf.unibz.it>)** Bolzano, Italy
○ Working on Efficient and Scalable Solutions for Time Series Analysis March 2020–April 2021
- **Bimito (<https://bimito.com>)** Tehran, Iran
○ Working with my Team on Making the Web Applications of Bimito August 2016–March 2020
- **Ministry of Education (<http://www.medu.ir>)** East Azerbaijan, Iran
○ Teach Some Fundamental Courses Include C, C++, and Computer Networks 2012–2013

RESEARCH INTERESTS

The purpose of my research is to study data analytics: how to analyze, store, retrieve, and manipulate large and heterogeneous data sets. My research focuses on systems-oriented problems that arise when developing software to manage and process large and diverse data sets, especially machine learning systems.

PUBLICATIONS

- [1] **Saeed Fathollahzadeh**, Essam Mansour, and Matthias Boehm, “CatDB: Data-catalog-guided, LLM-based Generation of Data-centric ML Pipelines,” *PVLDB* (*under review*), 2025.
- [2] **Saeed Fathollahzadeh**, Essam Mansour, and Matthias Boehm, “Demonstrating CatDB: LLM-based Generation of Data-centric ML Pipelines,” *SIGMOD* (*under review*), 2025.
- [3] **Saeed Fathollahzadeh**, Kia Teymourian, and Chris Jermaine, “Impact of Object Models and Implementation on Big Data System Performance: A Controlled Study [Experiment, Analysis & Benchmark],” *PVLDB* (*under submission*), 2026.
- [4] **Saeed Fathollahzadeh** and Matthias Boehm, “GIO: Generating Efficient Matrix and Frame Readers for Custom Data Formats by Example,” *SIGMOD*, 2023.
- [5] Sambasiva Rao Gangineni, Harshad Reddy Nalla, **Saeed Fathollahzadeh**, and Kia Teymourian, “Real-Time Object Recognition from Streaming LiDAR Point Cloud Data,” DEBS, 2019.
- [6] **Saeed Fathollahzadeh**, Kia Teymourian, and Mohsen Sharifi, “Stateful Complex Event Detection on Event Streams Using Parallelization of Event Stream Aggregations and Detection Tasks,” DEBS, 2016.
- [7] **Saeed Fathollahzadeh**, Reza Karimi, Mohsen Sharifi, Kia Teymourian, Ahmad Hasan, and Adrian Paschke, “Parallel Event Processing on Unbound Streams with Multi-step Windowing,” DEBS, 2015.
- [8] **Saeed Fathollahzadeh**, “A Middleware for Distributed Processing of Complex Events,” master of science thesis, Iran University of Science and Technology, Iran, 2014.

HONORS AND AWARDS

- [DEBS’19 Grand Challenge and Grand Challenge Audience Award](#), (2019).
- **1st Rank**, Achieving First in the Ranking List of Research Assistant Procedure Among All Applications, Faculty of Computer Science at the Free University of Bozen-Bolzano, (2019).
- **2nd Rank**, Nationwide M.Sc. Entrance Exam in Computer Engineering of Iranian Universities (Islamic Azad University of Qazvin), (2012).
- **1st Rank**, Achieving the Highest GPA Among All University Computer Engineering Bachelor Students, (2009).
- **1st Rank**, Achieving the Highest GPA Among All University Computer Engineering Associate Students, (2007).