# Saeed Fathollahzadeh

*Curriculum Vitae*

## Contact Info

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| *Current Location*: | Database Lab, 2155 Rue Guy, $10^{th}$ Floor, Montreal, Canada. |
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| I'm Available at: | |
| *Homepage*: | https://fathollahzadeh.github.io |
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| *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***, 2025.

[2] **Saeed Fathollahzadeh**, Essam Mansour, and Matthias Boehm, "Demonstrating CatDB: LLM-based Generation of Data-centric ML Pipelines," ***SIGMOD***, 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).

- **1$^{nd}$ 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).

- **2$^{nd}$ Rank**, Nationwide M.Sc. Entrance Exam in Computer Engineering of Iranian Universities (Islamic Azad University of Qazvin), (2012).

- **1$^{st}$ Rank**, Achieving the Highest GPA Among All University Computer Engineering Bachelor Students, (2009).

- **1$^{st}$ Rank**, Achieving the Highest GPA Among All University Computer Engineering Associate Students, (2007).