Saeed Fathollahzadeh
Curriculum Vitae

Contact Info

Current Location:	Database Lab, 2155 Rue Guy, 10th Floor, Montreal, Canada.
Email:	s.fathollahzadeh@gmail.com
	saeed.fathollahzadeh@mail.concordia.ca

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–Present

- **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

- **B.Sc.** in **Software Engineering, University College of Daneshvaran** — Tabriz, Iran
  Supervisor: Prof. Ayaz Isazadeh and Dr. Javad Mehri-Tekmeh — 2007–2009

- **A.Sc.** in **Software Engineering, Islamic Azad University of Malekan** — Malekan, Iran
  Advisor: Dr. Babak Nariman Jahan — 2005–2007

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

- **Informatics Services Corporation (http://en.isc.co.ir)** — Tehran, Iran
  ○ Software Engineer Intern — 2015–2016

- **Ministry of Economy and Affair Finance (http://mefa.ir)** — Tehran, Iran
  ○ Working on a Software for Manage Government Finances Resources — 2013–2015

- **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** and Matthias Boehm, "GIO: Generating Efficient Matrix and Frame Readers for Custom Data Formats by Example," *SIGMOD*, 2023.

[2] **Saeed Fathollahzadeh**, Kia Teymourian, and Chris Jermaine, "How the Object Model and its Implementation Impacts Performance of Big Data Systems: A Controlled Experimental Study," *TKDE (under review)*, 2023.

[3] Sambasiva Rao Gangineni, Harshad Reddy Nalla, **Saeed Fathollahzadeh**, and Kia Teymourian, "Real-Time Object Recognition from Streaming LiDAR Point Cloud Data," DEBS, 2019.

[4] **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.

[5] **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.

[6] **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).

- **1nd 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).

References

- Professor **Matthias Boehm**, Head of the Data Management for Data Science Laboratory and Supervisor of my Ph.D. and Research Projects, DAMS Lab Research Group, Berlin Institute for the Foundations of Learning and Data (BIFOLD), Berlin, Germany. *Home*: https://mboehm7.github.io, *Email*: matthias.boehm@tu-berlin.de

- Professor **Mohsen Sharifi**, Supervisor of my Master Study, School of Computer Engineering, Iran University of Science and Technology, Tehran, Iran. *Home*: http://webpages.iust.ac.ir/msharifi, *Email*: msharifi@iust.ac.ir

- Dr. **Kia Teymourian**, Research Cooperator, Department of Computer Science, University of Texas at Austin, USA. *Home*: http://www.teymourian.de, *Email*: kiat@cs.utexas.edu