

## Contact

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## Top Skills

Data analysis and visualization  
Database management  
Data cleaning and processing

## Certifications

SQL Intermediate  
Supervised Machine Learning:  
Regression and Classification  
Introduction to SQL

## Honors-Awards

Queen Elizabeth II Graduate  
Scholarships in Science and  
Technology

# Ali Khaksar

Data Analyst at Arcadis  
Toronto, Ontario, Canada

## Summary

Professional with a Master's degree in Transportation Engineering and a strong foundation in data analysis and system optimization. Experienced in configuring and enhancing Advanced Traffic Management Systems (ATMS) through SQL scripting, geospatial analysis (QGIS), and process automation. Proficient in Python, C++, and R, with a passion for leveraging data-driven insights and innovative technologies to solve complex problems and drive efficiency across diverse sectors.

## Experience

### Arcadis

11 months

#### Data Analyst

January 2025 - Present (1 month)

Toronto, Ontario, Canada

- Monitored and analysed system performance, generating reports for continuous improvement and troubleshooting issues proactively.
- Provided technical support to clients and internal teams by evaluating client-reported issues and proposing effective solutions.
- Collaborated with DevOps teams to optimize deployment and integration processes using Git and VS Code.
- Performed exploratory data analysis to uncover trends, patterns, and anomalies.
- Collected and processed data from various sources, ensuring accuracy and consistency.
- Documented system configurations, processes, and procedures for efficient future reference.

#### Intelligent Transportation System Analyst

March 2024 - January 2025 (11 months)

Toronto, Ontario, Canada

- Configured Advanced Traffic Management System (ATMS) projects to meet client requirements by developing and executing SQL scripts in Azure Data Studio.
- Tested and maintained ATMS product features to ensure system performance and reliability.
- Participated in system design and architecture discussions to enhance ATMS capabilities, including integrating mapping systems with QGIS.

## York University

### Graduate Research And Teaching Assistant

January 2022 - Present (3 years 1 month)

Toronto, Ontario, Canada

- Investigated the impact of reallocating emergency response facilities and resources on department performance through literature review and regulatory analysis.
- Built an ArcGIS dashboard to visualize Toronto's historical accident data using heatmaps, charts, and indicators.
- Developed a mathematical model and an interactive Mapbox tool to analyse and visualize the effects of resource and facility reallocation on emergency response times, integrating real-world geospatial data.
- Taught Vissim traffic simulation to students, guiding them in analysing traffic flow, delays, and queue lengths by implementing and evaluating changes like new signal timings or lane configurations.
- Delivered civil engineering tutorials to 200+ students, managed grading, facilitated engaging sessions, and provided one-on-one support during office hours.

## Altimap Land Surveyors Inc.

### Senior Technical Drafter

March 2020 - December 2021 (1 year 10 months)

Toronto, ON, Canada

- Collaborated with companies and city engineering departments to enhance systems and construction processes.
- Created topographic surveys, as-built maps, and engineering designs (site grading, stormwater management) using MicroStation, AutoCAD, and Civil 3D.
- Managed drafting projects, organized the department, reviewed final drafts for quality, and maintained strong team collaboration.
- Trained new drafters and led the drafting team.

## Tarbiat Modares University

#### Graduate Research Assistant

September 2017 - November 2020 (3 years 3 months)

Tehran Province, Iran

- Developed an agent-based simulation model in Java to evaluate demand-responsive transit (DRT) vs. BRT systems, analyzing metrics like access, waiting, and travel times.
- Applied Aimsun for traffic simulation, leveraging traffic flow theories to improve the accuracy of transportation research.
- Incorporated HCM methodologies for roadway analysis and design, enhancing traffic capacity and safety in course projects.

#### Amirkabir University of Technology - Tehran Polytechnic

##### Teaching Assistant

February 2014 - June 2016 (2 years 5 months)

Tehran, Tehran Province, Iran

- Prepared high-quality teaching materials and independently supervised 250+ students in Computer Programming (FORTRAN) and Engineering Economy, both in class and during office hours.

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## Education

#### York University

Master of Science, Transportation Engineering · (January 2022 - April 2024)

#### Tarbiat Modares University

Master of Science, Transportation and Highway Engineering · (September 2017 - November 2020)

#### Amirkabir University of Technology - Tehran Polytechnic

Bachelor of Science - BS, Civil Engineering · (September 2012 - March 2017)

#### Mofid Qeytariyeh Highschool

· (September 2008 - September 2012)