

Reza Mohebifard

Curriculum Vitae

Faculty of Environment
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EDUCATION

- M.Sc. Environmental Systems Engineering, Graduate Faculty of Environment, University of Tehran, Tehran, Iran, 2023-present, (GPA: 18.26/20.00)
- B.Sc. Civil Engineering, Department of Civil Engineering, Sharif University of Technology, Tehran, Iran, 2022
- Diploma Mathematics, National Organization for Development of Exceptional Talents, Kerman, Iran, 2017

EXPERIENCES

- 2024-present Research Assistant, Graduate Faculty of Environment, University of Tehran, Tehran, Iran,
- 2022 Research Assistant, Department of Civil Engineering, Sharif University of Technology, Tehran, Iran
- 2023 Software developer, Pars Mobin Software Development Company, Kerman, Iran
- 2021 Internship, Sham-Koob Construction and Consulting Firm, Kerman, Iran

RESEARCH INTERESTS

Applications of AI in Environmental Engineering

Risk Assessment and Management

Remote Sensing

Sustainability

Data Analysis

SELECTED PROJECTS

- 2023 Air Quality Prediction using Big-data and Machine Learning, University of Tehran, Graduate Faculty of Environment, Tehran, Iran
- Investigating various big-data and machine learning based techniques for air quality forecast
- 2024 Performance Scoring Model for Sales Representatives Using Random Forest, University of Tehran, Graduate Faculty of Environment, Tehran, Iran
- Developed and implemented a Random Forest-based machine learning model to evaluate and score sales representatives' performance, leveraging key sales metrics to provide actionable insights for performance management and resource optimization
- 2021 Cost-optimization of a Transportation System for Five Dairy Corporations and their Three Milk Production Farms, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
- Finding the optimized routes for moving dairy products in a transportation network
 - Formulating the problem and using CPLEX to solve the route optimization problem
- 2019 Spatial-Temporal Modeling of Qualitative Parameters and Trophic Status in Chaghakhor Wetland, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
- Modeling wetlands and lakes pollution using pollution indices GIS-based deterministic tools and geostatistical techniques
- 2019 Spread of Contaminated Plumes in Laminar Flow, Sharif University of Technology, Fluids lab, Tehran, Iran
- Dynamics and behavioral analysis of spreading plumes in two-layer fluids
- 2021 Scheduling and Resource Management for Road Construction, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
- Designing and modeling a 10 km mountain route with Primavera P6
- 2022 Sustainable Magnetic Refrigerators, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
- Sustainability analysis of magnetic refrigerators with respect to their dimensions
- 2021 Cold In-place Recycling Pavement, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
- Studying different features of cold in-place recycling pavement
- 2020 Infrastructures and Life-cycle Cost-benefit Analysis, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
- Design and maintenance of infrastructures using Life-Cycle Cost-Benefit analysis with special emphasis on user's costs

HONORS AND AWARDS

- 2017 Ranked top 0.1% among more than 146,000 participants in the Iran national university entrance exam
- 2015 Winner of Math Olympiad, Southeast division

SELECTED COURSES

- 2020 Environmental Modeling, University of Tehran, Graduate Faculty of Environment, Tehran, Iran (Grade: 19.75/20.00)
- 2021 Application of GIS and RS, University of Tehran, Graduate Faculty of Environment, Tehran, Iran (Grade: 18.50/20.00)
- 2021 Environmental Risk Assessment and Management, University of Tehran, Graduate Faculty of Environment, Tehran, Iran (Grade: 19.00/20.00)
- 2020 Environmental Systems Management, University of Tehran, Graduate Faculty of Environment, Tehran, Iran (Grade: 19.50/20.00)
- 2020 Artificial Intelligence Systems, University of Tehran, Graduate Faculty of Environment, Tehran, Iran (GPA: 17.50/20.00)
- 2017 Python Programming, Sharif University of Technology, Tehran, Iran

COMPUTER SKILLS

Software ArcGIS, Super Decision, Expert Choice

Programming Python, MATLAB, C++, Java, Stata

ONLINE CERTIFICATES

Python Data Structures, Coursera, 2022

Machine Learning with Python, Coursera, 2022

Introduction to Deep Learning and Neural Networks with Keras, Coursera, 2022

Exploratory Data Analysis for Machine Learning, Coursera, 2022

Using Python to Access Web Data, Coursera, 2022

Getting Started with Python, Coursera, 2022

ENGLISH TEST SCORES

TOEFL: 99 (R:28, L:25, S:23, W:23), 2024

GRE: 304 (Q: 162, V: 142), 2022