





Alireza Ghorbani

Curriculum Vitae

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Education

- 2024–2026 **M.Sc. in Epidemiology**,  Ludwig-Maximilian University, Munich, Germany.
(Expected)
- 2014–2016 **M.Sc. in Mathematical Statistics**,  Shahid Beheshti University, Tehran, Iran.
○ Thesis: Analysis of High Dimensional Data Using Rayleigh Quotient Optimization (in Persian) under supervision of Prof. Faridrohani & prof. Hamedani
- 2009–2014 **B.Sc. in Statistics**,  Shahid Chamran University, Ahwaz, Iran.
○ Thesis: Statistical Study for The Factors Contributing to The Academic Failure among A Group of Undergraduate Students (in Persian) under supervision of Prof. Zadkarami
- 2006–2008 **High School & Pre-University Diploma in Mathematics and Physics**,  Shahid Beheshti High School, Birjand, Iran
Affiliated with the National Organization for Development of Talented Students (NODET)

Publication

- 2024+ **Enhanced Multi-Criteria Decision Making using Generalized Linear Models and Augmented Feature Space (Case study: Water Pipeline Routing)**, [Under Review](#)
- 2024+ **Optimizing Water Pipeline Route Selection Using a Sparse Deep Neural Network and the Fuzzy VIKOR Method (case study: water pipeline transmission)**, [Under Review](#)
- 2024 **Longitudinal Supply Chain Monitoring using Generalized estimating equation and Joint Optimization method (A case study in the Personal Care Industry)**, [Accepted](#)

Teaching and Professional Experience

- 2021 - 2024 **Data Science Senior Specialist**, R&D Department,  Zarrin Roya, Tehran, Iran.
I support the R&D department's ambitions in data analytics, predictive modeling, and data quality improvements.
- 2022 – 2023 **Statistics & Machine Learning Instructor**,  Learnix.ir, Tehran, Iran.
I taught online courses on statistics, machine learning, and R programming language in Persian at learnix.ir, using interactive videos, quizzes, exercises, and projects to engage and assess learners.










Honors and Awards

- 2014 **Ranked 9th**, in the 19th National Scientific Olympiad (Statistics)
- 2014 **Ranked 19th**, in the National Entrance Exam for Masters of Science in Actuarial Statistics, Social & Economic Statistics and Theoretical Statistics
- 2003 & 2005 Selected for study in schools of the National Organization for Development of Exceptional Talents (NODET) through an exam with less than 1% acceptance rate.

Research Interests

- Statistical Learning
- Genetic Epidemiology
- High Dimensional Statistics
- Bayesian Statistics

Extracurricular Activities & Professional Certificates

- Bayesian Statistics Specialization
 University of California, Santa Cruz
- Machine Learning Specialization
 Stanford University &  deeplearning.ai
- Natural Language Processing Specialization
 deeplearning.ai
- Statistics with Python Specialization
 University of Michigan
- Practical Time Series Analysis
 The State University of New York
- Deep Learning Specialization
 deeplearning.ai
- Fundamentals of Reinforcement Learning
 University of Alberta
- Python 3 programming Specialization
 University of Michigan

Technical skills

 R Programming,  Python,  Matlab,  SQL, \LaTeX ,  Open BUGS

Languages

- English: Fluent
- German: Elementary