Alireza Ghorbani

Curriculum Vitae

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Education

2024-2026 (Expected) **M.Sc. in Epidemiology**, LMU Ludwig-Maximilian University, Munich, Germany.

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

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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