

Javad Mirzaei

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[Javad Mirzaei](#)

EDUCATION

Sharif University of Technology

GPA: **3.6/4 (16.74/20)** via 155 credits (total)

GPA: **3.8/4 (17.52/20)** via 105 credits (last 6 semesters)

Bachelor of Science (B.Sc.), Civil Engineering

2017-2022

Department of Civil Engineering, Sharif University of Technology

Minor, Economics (21 Credits)

2020-2021

Graduate School of Management and Economics (GSME), Sharif University of Technology

FIELDS OF INTEREST

Data Analysis
Construction Management
Machine Learning
Artificial Intelligence

Econometrics
Risk Management
Sustainability
Retrofit cost estimation

PAPERS

- "Mirzaei. J, Amiri. H, Khaleghi. H, Kashani. H, Machine Learning-based Regression Models for Estimating Seismic Retrofit Cost of Masonry Buildings" Accepted by "Sharif Journal of Civil Engineering", [Available](#) Online from 21 June 2022
- "Mirzaei. J, Amiri. H, Khaleghi. H, Kashani. H, Development and Comparison of Models for Predicting Seismic Retrofit Cost of Masonry School Buildings" Received minor comments from "International Journal of Construction Management" and revised
- "Amiri. H, Khaleghi. H, Mirzaei. J, Kashani. H, Deterministic and Probabilistic Modeling for Earthquake Fatality Estimation" (Expected to be submitted in September)
- "Mirzaei. J, Amiri. H, Kermanshah. A. H, A study of the relationship between income inequality and sustainability using SVM and pooled regression", (Expected to be submitted in October)
- "Amiri. H, Mirzaei. J, Yousefelahe. A, Kashani. H, Machine Learning Models for Seismic Retrofit Cost Estimation", (Expected to be submitted in September)

RESEARCH AND TEACHING EXPERIENCE

Research Assistant, Sharif University of Technology

2020-Present

- Supervised by **Dr. H. Kashani**
 - Seismic Retrofit Cost Estimation
 - Earthquake fatality estimation

Research Assistant, Sharif University of Technology

2021-Present

- Supervised by **Dr. A. H. Kermanshah**
 - Income inequality and sustainability

Teaching Assistant "Macroeconomics", Sharif University of Technology

2022 Spring

- Instructor: **Dr. A. Mahmoodzade**

Teaching Assistant "Urban Infrastructure Sustainability Principles",
Sharif University of Technology

2021 Spring

- Instructor: **Dr. A. H. Kermanshah**

Data Collection Assistant "Data collection for real state price in Tehran",
Sharif University of Technology

2020 Summer

- Instructor: **Dr. H. Kashani**

COMPUTER SKILLS

| Applications | | Programming Languages | |
|-------------------|--------------|-----------------------|--------------|
| Professional | Knowledgable | Professional | Knowledgable |
| Etabs | SAP2000 | Python | R |
| AutoCAD | Mathcad | Stata | Matlab |
| Microsoft Office | Eureka | | Git |
| CSI SAFE | | | |
| IBM Watson Studio | | | |

SELECTED COURSES: SHARIF UNIVERSITY OF TECHNOLOGY

Civil

- Project and Construction Management 17.8/20, (4/4)
- Construction Methods and Equipment 18.6/20, (4/4)
- Urban Infrastructure Sustainability Principles 18.5/20, (4/4)
- Entrepreneurship Principles 18.5, (4/4)
- System Engineering (OR) 16.7/20, (4/4)
- Material & Concrete Technology 17.9/20, (4/4)
- Technical English for Civil Engineering 18.5/20, (4/4)

Economics

- Principles of economics 18.4/20, (4/4)
- Financial economics Minors 18.7/20, (4/4)
- Microeconomics 19.6/20, (4/4)
- Econometrics Minor 18.8/20, (4/4)

SELECTED COURSES: ONLINE CERTIFICATIONS

Saylor.org academy (Certificates are available [here](#))

- Introduction to python
- Evaluating sources and references
- Advance English as a second language
- Spreadsheets

Coursera

- What is data science? (Certificate is available [here](#))
- Tools for Data Science (Certificate is available [here](#))
- Data Science Methodology (Certificate is available [here](#))

- Python for Data Science, AI & Development (Certificate is available [here](#))
- Python Project for Data Science (Certificate is available [here](#))
- Data Analysis with Python (Certificate is available [here](#))
- Data Visualization with Python (Certificate is available [here](#))
- Machine Learning with Python (Certificate is available [here](#))
- Andrew NG's Machine learning course (Audited)

Others

- Programming using MATLAB

SELECTED COURSE PROJECTS

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|--|--------------------|
| Investigating the relationship between economic growth and income inequality in Iran Course: <i>Macroeconomics</i> | <i>Spring 2021</i> |
| Investigating the relationship between GDP and rent revenue Course: <i>Econometrics</i> | <i>Spring 2021</i> |
| Investigating water consumption sustainability in the Jean industry Course: <i>Urban Infrastructure Sustainability Principles</i> | <i>Fall 2020</i> |
| Studying the spread of contaminated plumes in laminar flow Course: <i>Fluid Mechanics</i> | <i>Spring 2019</i> |
| Research on RCC pavements and improvements Course: <i>Pavements design</i> | <i>Fall 2020</i> |

HONORS AND AWARDS

- Ranked 14 among more than 6,000 participants in the nationwide University Entrance Exam for Master's degree (Konkoor) 2022
- Ranked top 0.5% among more than 146,000 participants in the nationwide University Entrance Exam (Konkoor) 2017

LANGUAGE SKILLS

- Farsi: Native
- English: Bilingual proficiency
TOEFL-iBT test score 102 (R:28, L:29, S: 23, W: 22)
- French: beginner