Amir Hossein Pakizeh

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Personal Website

- **Amir Hossein Pakizeh**

Education

Sep. 2017– Present **M.S. in Civil and Environmental Engineering**, *Sharif University of Technology*, Tehran, Iran.
GPA: 17.96/20 (3.88/4)

Sep. 2013– Sep. 2017 **B.S. in Civil and Environmental Engineering**, *Sharif University of Technology*, Tehran, Iran.
GPA: 17.09/20 (3.67/4)

Sep. 2009– July 2013 **High School Diploma in Mathematics and Physics**, *Allameh Helli 1*, Hamadan, Iran.
Affiliated with National Organization for Development of Exceptional Talents (NODET)

Research Interests

- Machine Learning
- Input-Output Modeling (in economics)
- Bayesian Network
- Game Theory
- Construction Project Management
- Risk Modeling and Analysis
- Computer Simulation

Research Experience

Nov. 2019 **Research Paper**, *Constructing Regional Input-Output Table Using Machine learning Algorithms (to be submitted in November, 2019).*
Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran.
Under the Supervision of **Prof. Hamed Kashani.**

Nov. 2019 **Research Paper**, *A Novel Ensemble Machine Learning Model to Predict Residential Construction Cost (to be submitted in November, 2019).*
Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran.
Under the Supervision of **Prof. Hamed Kashani.**

Jan. 2020 **M.S Project (Thesis)**, *Using Machine Learning Algorithms and Input-Output Models to Estimate Post-disaster Construction Cost (to be Completed in January, 2020).*
Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran.
Under the Supervision of **Prof. Hamed Kashani.**

Teaching Experience:

Teaching Assistant.

Fall 2017 & Spring 2018 Project and Construction Management, Dr. Kashani

Fall 2017 & Spring 2018 Construction Methods and Equipment, Dr. Kashani

2017 & 2018 private teaching (Physics) off-campus,

Related documents and references are available via hyper-links in the text.

Technical Skills

Programming Languages	*Python, Matlab*
Construction Management Softwares	*Microsoft Project*
Civil Project Simulation Software	*AnyLogic*
structural analysis and design of buildings	*ETABS, SAFE*
Computer Graphics and Data Visualizations	*AutoCAD, Civil3D*
Other Softwares	*@Risk, PrecisionTree, VisualStudio*

Tests

TOEFL	Total Score: **98/120**.	*Reading [26/30], Listening [28/30], Speaking [21/30], Writing [23/30]*
GRE	Total Score: **324/340**	*Quantitative [170/170], Verbal [154/170], Analytical Writing [4/6]*

Related Attended Courses

Graduate Courses.

Construction Equipment Management	20/20	Risk Management	20/20
Machine Learning	17.1/20	Construction Methods 1	18.5/20
Contract Administration	17.2/20	Project Planning and Control Methods	17.3/20
Simulation Application in Civil Engineering	17.6/20	Game Theory	15.5

Awards and Honors

2019 & 2018 & 2017 & 2013 Honored and Selected Student of Iran's National Elites Foundation (INEF), Qualified for Scholarship Awards

2018 Academic top student of the year, awarded by Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran.

2017 **Ranked 2^{th}** in civil engineering M.S university entrance exam among 39392 participants

2017 **Ranked 11^{nd}** in 22th Iranian civil engineering Olympiad among 50 groups

2016 Awarded fellowship of exceptional talents of Sharif University of Technology (Accepted to master's program at Sharif University of Technology being exempted from the National Qualifications Entrance Exam)

2016 **Ranked 7^{th}** among 110 B.S. students of the Department of Civil and Environmental Engineering, Sharif University of Technology.

2013 **Ranked 110^{th}** among nearly 300,000 participants, in the Iranian National University Entrance Exam, Mathematics & Physics Major and English Language Major respectively.

Notable Projects

- Planing and Controlling of High-Rise Building Construction Using Microsoft Project Software, for "Project Planning and Control Methods" course project.
- Application of Game Theory in Modeling Interactions in Project Management, for "Game Theory" course project.
- Contract Strategy Planing of Residential-Commercial Building Construction, for "Contract Administration" course project.
- Simulating the Truck's Activity within a construction company in a specific Project Using AnyLogic Software, for "Simulation Application in Civil Engineering" course project.
- Analysis of Machinery Used in Karaj Subway Project, for "Construction Equipment Management" course project.
- Comprehensive Analysis of Space-Frames, for "Construction Methods 1" course project.

Related documents and references are available via hyper-links in the text.

Extracurricular Activities

- Mount climbing, Swimming, Running, Playing soccer, badminton, and table tennis
- Watching and reviewing movies
- Drawing Portraits
- Listening to pop music

References

- **Hamed Kashani**, Assistant Professor, Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran. Email: Hamed.Kashani@Sharif.edu
- **Hossain Poorzahedy**, Professor, Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran. Email: porzahed@sharif.edu
- **Amin Alvanchi**, Assistant Professor, Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran. Email: alvanchi@sharif.edu
- **Mohammad Ali Ghannad**, Professor, Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran. Email: ghannad@sharif.edu
- **Fayaz Rahimzadeh Rofooei**, Professor, Department of Civil and Environmental Engineering, Sharif University of Technology, Tehran, Iran. Email: rofooei@sharif.edu

Related documents and references are available via hyper-links in the text.