

# Mohammad Rahmati Selekisari

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🌐 [Website](#)

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## EDUCATION

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- 2016-2019**     **M.Sc.** in Structural Engineering  
Academic Center for Education, Culture, and Research (ACECR), Rasht Branch, Guilan, Iran  
GPA: 18.55/20  
**Thesis:** Effects of Vertical Geometric Irregularity on the Intensity and Location of Damage in RC Buildings Under the Far-field Earthquakes (Thesis Grade: 19.5 out of 20)  
**Supervisor:** Dr. Milad Ebrahimnejad
- 2007-2010**     **B.Sc.** in Civil Engineering  
Islamic Azad University, Bandar Anzali Branch, Bandar-e Anzali, Guilan, Iran  
GPA: 14.73/20
- 2004-2007**     **Associate Degree (A.Sc.)** in Civil Construction-Contracts Affairs  
University of Applied Science and Technology (UAST), Guilan Branch, ACECR\_Rasht, Iran

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## RESEARCH INTERESTS

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- Structural Health Monitoring
- Machine Learning
- Resilience of Infrastructure
- Seismic Assessment of Structures
- Steel and Composite Structures
- Advanced Materials in Structures

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## PUBLICATIONS

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### Journal Papers:

- Rahmati, M., & **Rahmati, M.** (2023). SHM-PPOGAN: Anomaly Classification in Structural Health Monitoring Data using Proximal Policy Optimization and Generative Adversarial Network. Heliyon. Advance online publication. (Under Revision)
- **Rahmati, M.**, & Ebrahimnejad, M. (2023). Damage assessment of RC buildings with vertical geometric irregularity. Structures. (Under Review)

### Conference Papers:

- **Rahmati, M.**, & Rahmati, M. (2024). *A Study on Seismic Risk Analysis*. In Proceeding of the 12<sup>th</sup> International Conference on Civil, Architecture and Urban Management. Tbilisi, Georgia. ([Link](#))
- Rahmati, M., & **Rahmati, M.** (2023). A Review of Structural Health Monitoring Techniques for Bridges. In Proceedings of the 8<sup>th</sup> International Congress on Civil Engineering, Architecture and Urban Development (ICSAU08\_0372). Tehran, Iran. ([Link](#))
- Ebrahimnejad, M., & **Rahmati, M.** (2020). Study on Variation of Mode Shapes as a Damage Index in Vertical Geometric Irregularity RC Buildings. In Proceedings of the 5th International Conference on Applied Research in Science and Engineering (CARSE05\_240). Amsterdam, Netherlands. ([Link](#))
- Ebrahimnejad, M., & **Rahmati, M.** (2019). A study on seismic response of Pyramid-shaped RC frames under far-field records. In Proceedings of the 4<sup>th</sup> International Conference on Applied Research in Science and Engineering (CARSE04\_136). Brussels, Belgium. ([Link](#))

- Ebrahimnejad, M., & **Rahmati, M.** (2019). A study on the damage of some vertical geometric irregular RC frames under earthquakes. In Proceedings of the 4<sup>th</sup> International Conference on Research in Science & Engineering and International Congress on Civil, Architecture, and Urbanism in Asia (ICRSIE04\_388). Bangkok, Thailand. ([Link](#))

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## TEST SCORES

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- **TOEFL iBT:** 108 (Reading: 29, Listening: 27, Speaking: 22, Writing: 30) Jun 22, 2022
- **GRE:** 321 (Quantitative Reasoning: 167, Verbal: 154, Analytical Writing: 4) Jun 29, 2022

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## COMPUTER SKILLS

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- **Programming:** Python
- **Applied Software:** Abaqus, IDARC, ETABS, SAP2000, SAFE, AutoCAD

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## SELECTED COURSES

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- Structures Dynamics: 17.5/20
- Finite Element Method: 20/20
- Theory of Elasticity: 20/20
- Advanced Steel Structures: 18/20
- Pre-stressed Concrete: 20/20
- Dynamics: 18/20
- Reinforced Concrete Structures Project: 17/20
- Differential Equations: 16/20
- Hydrology: 18/20
- Highway Engineering: 20/20

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## ACADEMIC PROJECTS

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- **"The analysis of truss using ABAQUS software"** (Summer, 2017)  
**Description:** A truss was analyzed under concentrated loads, and nodal drift, support reaction, and stress in truss elements were studied
- **"Static and spectral dynamic analysis of RC building with ETABS software"** (Summer, 2010)  
**Description:** A five-story RC building was modeled and compared under static and spectral dynamic analysis by ETABS software. In addition, all of the executive details of the building were achieved using ETABS, SAFE, and AutoCAD software
- **"The Risk Analysis in Earthquakes"** (Spring, 2010)  
**Description:** The causes of earthquake occurrence and measurement indices, the concept of risk, identification, analysis, and finally, risk management were presented in this report
- **"Static and spectral dynamic analysis of steel building using ETABS software"** (Winter, 2010)  
**Description:** A six-story steel structure was modeled under static analysis and spectral dynamic analysis using ETABS software. The result of the two methods were compared, and all of the executive details of the building were obtained using ETABS, SAFE, and AutoCAD software

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## WORK EXPERIENCE

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- **Registered Professional Engineer (P.E.) in Guilan Province** (2015-Present)  
Iran Construction Engineering Organization (IRCEO), Guilan, Iran, [[www.guilan-nezam.ir](http://www.guilan-nezam.ir)]  
**Description:** Licensed to work in the field of Civil Engineering (Grade 2) – Supervision & Implementation & Construction, with Membership No.: 11-3-0-11625  
The Construction Engineering Organization has issued me to oversee 41 construction projects as a supervising engineer. Also worked as an executive engineer for 15 residential and commercial buildings.
- **Surveyor** (2014)  
Atlas Consulting Surveying Co. Rasht, Guilan, Iran  
**Description:** Participated in the national Anzali Lagoon dredging limit project, this project defined the Lagoon's boundary with a triangulation Cadastral Survey

- **The expert in the Department of Civil Engineering and concrete testing laboratory (2013-2014)**  
The Environmental Research Institute of ACECR (Academic Center for Education, Culture and Research), Guilan, Iran  
**Description:** Investigated research projects addressing urban environmental issues and civil infrastructures, designed and provided structural drawings, Estimation, and as-built drawings, fulfilled the need for Civil Engineering data for the Data Coordinator in urban environmental projects

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## INTERNSHIPS

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- **Position:** Assistant Supervisor Engineer (Resident Engineer), 2012-2013  
Abad Consulting Engineering Co., Rasht, Guilan, Iran, ([www.abadco.com](http://www.abadco.com))  
**Description:** Learnt the details of the execution process of Steel Structures according to construction drawings, Project Management, Estimating, Procurement, Costing, and providing as-built drawings
- **Position:** Building Draftsman and Assistant Supervisor Engineer (Resident Engineer), 2011-2012  
Arad Engineering Company, Rasht, Guilan, Iran  
**Description:** Worked at the office and the construction site, became familiar with the details of the execution process of RC building according to construction drawings and Contracting Affairs of construction

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## TEACHING EXPERIENCE

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- **Teacher (2020)**  
Hetra Engineering Company, Rasht, Guilan, Iran  
**Course:** Building Draftsman with AutoCAD
- **Teaching Assistant (2018)**  
Academic Center for Education, Culture, and Research (ACECR), Rasht Branch, Guilan, Iran  
**Course:** Advanced Technology of Concrete  
Professor: Dr. Soroush Resatalab
- **Teaching Assistant (2017)**  
Academic Center for Education, Culture, and Research (ACECR), Rasht Branch, Guilan, Iran  
**Course:** Advanced RC Structures  
Professor: Dr. Soroush Resatalab

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## WORKSHOPS

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- 24-Hour workshop of "**Implementation of steel structures**", Guilan University, Rasht, Iran, Jan 2020
- 16-Hour workshop of "**New construction materials and technologies**", Guilan University, Iran, Jan 2020
- 24-Hour workshop of "**Regulation & Technical Measures of Health, Safety, and Environment Executive (HSE)**", Guilan University, Rasht, Iran, Feb 2020

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## RELEVANT COURSES

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- **Course:** Surveying with electronic/optical instrument of Total Station (Professional Surveyor) (Dec 2020)  
Director: State Technical & Vocational Training Organization (TVTO), Guilan, Iran  
**Description:** Training course within 45 hours and passed practical and written examinations with the grade 85/100
- **Course:** Building Draftsman with AutoCAD (Sep 2020)  
Director: State Technical & Vocational Training Organization (TVTO), Guilan, Iran  
**Description:** Training course within 322 hours and passed practical and written examinations with the grade 94/100
- **Course:** Surveyor (Jan 2020)  
Director: State Technical & Vocational Training Organization (TVTO), Guilan, Iran  
**Description:** Training course within 45 hours and passed practical and written examinations with the grade 85/100

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## HONORS & AWARDS

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- Ranked as the 3rd top student among more than 100 students during Master's program, 2018
- Ranked in the top 10% among 39,000 applicants in the Iranian Universities Entrance Exam for Master's program, Iran, 2016
- Ranked in the top 8% among 300,000 applicants in the Iranian Universities Entrance Exam, 2007
- Winner of the "Tuition Waive for Top Students" in Master's Program from Academic Center for Education, Culture, and Research (ACECR) Rasht Branch

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## REFERENCES

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- **Dr. Soroush Resatalab** (Adjunct Professor)  
Department of Civil & Environmental Engineering, Tarbiat Modares University, Tehran, Iran  
Email: [s.resatalab@modares.ac.ir](mailto:s.resatalab@modares.ac.ir)
- **Dr. Arash Bahar** (Associate Professor)  
Department of Civil Engineering, University of Guilan, Rasht, Iran  
Email: [bahar@guilan.ac.ir](mailto:bahar@guilan.ac.ir)
- **Dr. Mir Ahmad Lashteh Neshaei** (Associate Professor)  
Department of Civil Engineering, University of Guilan, Rasht, Iran  
Email: [maln@guilan.ac.ir](mailto:maln@guilan.ac.ir)