

Curriculum Vitae

❖ Personal information

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❖ Education

Ph.D. in Structural Engineering, **University of Guilan**, Rasht, Iran (2010-2018)

Thesis: Experimental and analytical investigations on the seismic response of steel frames infilled with concrete sandwich panels

M.Sc. in Structural Engineering, **University of Guilan**, Rasht, Iran (2007-2010)

Thesis: Evaluation of roof diaphragm effect on seismic behavior of masonry buildings

B.S. in Civil Engineering, **Urmia University**, Urmia, Iran (2000-2005)

❖ Work Experience

Currently:

- Full-time Assistant Professor at Arak University, Iran (Since 2020).
- Invited Lecturer at Tabriz Islamic Art University, Iran (Since 2019).
- Member of Construction Project Planning and Approval Executive Committee at Arak University (Since 2022)
- Professionally qualified and member of Iran Construction Engineering Organization (IRCEO) as a Civil Engineer in Structural Design (Since 2012).

Formerly:

- Lecturer at Qom University of Technology (QUT), Iran (2018-2020).
- Visiting Researcher at the University of Minho, Portugal (2015-2016), under supervision of Prof. Paulo B. Lourenço.
- Visiting Researcher at the International Institute of Earthquake Engineering and Seismology (IIEES), Iran (2014), under supervision of Prof. Abdolreza S. Moghadam.
- Part-time Lecturer at Ahrar Institute of Technology and Higher Education (2011-2012).
- Teaching Assistant at University of Guilan (2011).

Courses Taught:

Strengthening Techniques of Historical Structures (MSc.)	Theory of Elasticity (MSc.)
Advanced Design of Concrete Structures (MSc.)	Design of Concrete Structures
Seismic Design of Structures (MSc.)	Design of Masonry Structures
Computer-Aided Design in Civil Engineering	Structural Analysis (I & II)
Concrete Technology & Laboratory	Mechanics of Materials (I & II)
Civil Engineering Materials & Laboratory	Structural Loads and Systems
Technical English for Civil Engineering Students	Statics

❖ Publications

Journal Publications:

11) H Omidvar, **SJ Hashemi**, M Yazdani (2025) “In-plane behavior of steel frames with various infill materials; a parametric finite element study”, *Civil Infrastructure Researches*, 2025; Volume 11, Issue 1, Pages 203-215. <https://doi.org/10.22091/cer.2025.11867.1587>.

10) MJ Ranjbar, **SJ Hashemi**, P Zakian (2025) “Fundamental period of steel moment-resisting frames infilled with concrete sandwich panels”, *The Structural Design of Tall and Special Buildings*, Volume 34, Issue 5; e70012. <https://doi.org/10.1002/tal.70012>.

9) N Moradi, M Yazdani, **SJ Hashemi** (2025) “Numerical study of the seismic performance of interlocking mortarless masonry walls using the nonlinear static method”, *Structural Engineering and Mechanics* (Techno-Press), Volume 93, No. 2, Pages 147-164. <https://doi.org/10.12989/sem.2025.93.2.147>.

8) N Moradi, M Yazdani, F Janbozorgi, **SJ Hashemi** (2024) “In-plane seismic performance of historical masonry walls with various brick bond patterns using micro-modeling approach”, *Asian Journal of Civil Engineering*, Volume 25, Pages 4863-4876. <https://doi.org/10.1007/s42107-024-01085-x>.

7) S Gholami, F Akhoundi, **SJ Hashemi**, PB Lourenço (2023) “Seismic safety assessment of historical masonry buildings in Iran; Application to 19th and early 20th century period”, *Culture of Islamic Architecture and Urbanism Journal*, Volume 8, Issue 2, Pages 21-29 (in Persian); <http://ciauj-tabriziau.ir/article-1-524-en.html>.

6) **SJ Hashemi**, J Razzaghi, PB Lourenço (2022) “In-plane behavior of concrete sandwich panels bounded by steel frames: A numerical analysis approach”, *International Journal of Civil Engineering*, Volume 20, Issue 8, Pages 885-905. <https://doi.org/10.1007/s40999-022-00705-4>.

5) **SJ Hashemi**, J Razzaghi (2022) “Comparative study on diagonal strut models for concrete sandwich panels in steel frames”, *Asian Journal of Civil Engineering*, Volume 23, Issue 1, Pages 125-139. <https://doi.org/10.1007/s42107-022-00416-0>.

4) F Akhoundi, **SJ Hashemi** (2021) “Parametric analysis of out-of-plane behavior of masonry infilled RC frames” *Journal of Civil and Environmental Engineering; University of Tabriz*, Volume 51.1, Issue 102, Pages 1-146 (in Persian); https://ceej.tabrizu.ac.ir/article_11262.html?lang=en.

3) **SJ Hashemi**, J Razzaghi, AS Moghadam, PB Lourenço (2018) “Cyclic testing of steel frames infilled with concrete sandwich panels”, *Archives of Civil and Mechanical Engineering*, Volume 18, Issue 2, Pages 557–572; <https://doi.org/10.1016/j.acme.2017.10.007>.

2) **SJ Hashemi**, J Razzaghi, AS Moghadam (2018) “In-plane behaviour of concrete sandwich panel-infilled steel frames with different interface conditions”, *Structures and Buildings - Proceedings of the Institution of Civil Engineers (ICE)* Volume 171, Issue 2, Pages 166–177; <http://dx.doi.org/10.1680/jstbu.16.00149>.

1) **SJ Hashemi**, J Razzaghi, AS Moghadam (2017) “Effect of concrete sandwich infill panels with opening on in-plane behaviour of steel frames”, *Journal of Concrete Research*, Volume 10, Issue 3, Pages 5-18 (in Persian); <http://dx.doi.org/10.22124/jcr.2017.2563>.

Selected Conference Proceedings:

7) N Moradi, M Yazdani, **SJ Hashemi** (2024) “Seismic assessment of Putra interlocking masonry wall using pushover analysis”, 9th *International Conference on Seismology and Earthquake Engineering; SEE9*, Tehran, Iran.

6) N Moradi, M Yazdani, **SJ Hashemi** (2024) “Nonlinear static analysis of Putra interlocking masonry wall using micro-modeling approach”, 9th *International Conference on Seismology and Earthquake Engineering; SEE9*, Tehran, Iran.

5) H Omidvar, **SJ Hashemi**, M Yazdani (2023) “Comparison of in-plane behavior of masonry infills and concrete sandwich panels in steel frames” 13th *International Congress on Civil Engineering*, Tehran, Iran.

4) **SJ Hashemi**, J Razzaghi (2021) “In-plane behavior of steel frames infilled with concrete sandwich panel; effect of number of spans and evaluation of fundamental period” 12th *International Congress on Civil Engineering*, Mashhad, Iran (in Persian).

3) J Razzaghi, MM Ranjbar, **SJ Hashemi**, AS Moghaddam (2011) “Evaluation of roof diaphragm effect on seismic behavior of masonry buildings”, 8th *International Conference on Structural Dynamics; EURODYN2011*, Leuven, Belgium.

2) **SJ Hashemi**, J Razzaghi, MM Ranjbar, AS Moghaddam (2010) “Seismic design of masonry buildings considering structural walls distribution”, 5th *National Congress on Civil Engineering*, Mashhad, Iran (in Persian).

1) R Madandoust, MM Ranjbar, SY Mousavi, **SJ Hashemi** (2009) “Evaluation of the fluidity and mechanical properties of lightweight Self-Compacted Concrete (LSCC) containing expanded polystyrene”, 3rd *International Conference on Concrete & Development*, Tehran, Iran.

❖ **Projects**

♦ Reconstruction of Masonry Buildings in the Historical City of Masouleh using Traditional Materials, in cooperation with Padir Sazeh Omran Consulting Engineers, Sponsored by: "Cultural Heritage, Tourism and Handicrafts Organization of Guilan Province", 2011-2012.

- ♦ Experimental and Analytical Investigations on the Seismic Response of Steel Frames Infilled with Concrete Sandwich Panels (3D Panels), Sponsored by: "Rasht Municipality", 2014-2016.
- ♦ Numerical Investigations of Out-of-Plane Behavior of Masonry Infills in Old Buildings, Sponsored by: "Islamic Art University of Tabriz", 2017-2018.
- ♦ Experimental and Numerical Modal Analyses of a Traditional Windcatcher in Yazd, Sponsored by: " International Windcatcher Research Center", 2021-2023.
- ♦ Seismic Vulnerability Assessment of Do'ab Historic Bridge, Sponsored by: "Cultural Heritage, Tourism and Handicrafts Organization of Markazi Province", 2022-2024.

❖ Research Interests

Seismic behaviour of infilled frames
 Seismic behaviour of masonry structures
 Concrete sandwich panel structures
 Steel and composite steel/concrete structures
 Large-scale experimental testing of structures
 Nonlinear Finite Element (FE) modelling

❖ Honors and Awards

- ♦ Excellent degree in PhD Dissertation and score 20 out of 20, 2018.
- ♦ Vice Chancellor's Research Excellence Award, University of Guilan, 2017.
- ♦ Outstanding Researcher, Iran Construction Engineering Organization (IRCEO), Qom, 2014.
- ♦ Rank 1st in the PhD entrance examination of Structural Engineering, University of Guilan, 2010.
- ♦ Distinguished B.S student of Civil Engineering, Urmia University, 2004.

❖ Invited Presentations

- ♦ Workshop on "Finite Element Analysis using DIANA", Tabriz Islamic Art University, IRAN, 2020.
- ♦ Workshop on "Strengthening Techniques of Historical Structures", Tabriz Islamic Art University, IRAN, 2025.

❖ Computer Skills

Structural:

- DIANA (FE Analysis), ANSYS, SAP, ETABS, SAFE

Programming:

- Maple, MATLAB

General:

- AutoCAD, Microsoft Office

❖ **Technical Reviewer**

- Structures and Buildings (Proceedings of the ICE) ([Home Page](#))
- Advances in Structural Engineering ([Home Page](#))
- International Journal of Civil Engineering ([Home Page](#))
- KSCE Journal of Civil Engineering ([Home Page](#))
- Iranian Journal of Science and Technology, Transactions of Civil Engineering ([Home Page](#))
- Journal of Research on Archaeometry ([Home Page](#))
- Modares Civil Engineering Journal ([Home Page](#))
- Civil Infrastructure Researches ([Home Page](#))
- Journal of Structural and Construction Engineering ([Home Page](#))

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