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Date of Birth

September 21, 1983.

Languages

Farsi

English

Hadi Sayyadpour Sisakht

Assistant Professor of Civil Engineering

Department of Civil Engineering, Yasouj University, Iran.

Education

Ph.D.:

Isfahan University of Technology

PhD in Civil Engineering – Specialization: **Geotechnical**

Earthquake Engineering and Soil-Structure Interaction (2016)

Dissertation subject: ***The Near-Field Method for Soil-Structure Interaction Analysis of Building Structures Resting on Shallow Foundations.***

M.Sc.:

Isfahan University of Technology

M.Sc. in Civil Engineering (2009)

Thesis Subject: ***Investigating Lateral Monotonic Response of Tapered Battered Piles Considering Nonlinear Soil-Pile Interaction.***

B.Sc.:

Isfahan University of Technology

B.Sc. in Civil Engineering (2006)

Awards and Achievements

- ☐ Ranked **130th** among more than 120000 applicants of the national university entrance exam for B.Sc. degree in 2002.
- ☐ Recognised as Talented Student during B.Sc. degree (Isfahan University of Technology)
- ☐ Ranked **3rd** among the civil engineering department students),
- ☐ Distinguished Student Scholarship **Award** (2003-2004)
- ☐ M.Sc. Admission Award for Distinguished Students of Isfahan University of Technology: Exemption from the national entrance exam for M.Sc. degree (2006).
- ☐ Ranked 1st entrant in Isfahan University of Technology Ph.D. program entrance exam (2009).
- ☐ Awarded the highly competitive PhD scholarship of Iran's Department of Science, research and Technology (2012)
- ☐ PhD graduation with an excellent grade (2016).
- ☐ Specialised Military Service Award of the National Elites Foundation of Iran (2017).
- ☐ Housing Purchase/ Construction Facility Award of the National Elites Foundation of Iran (2018).

- ☐ Awarded **research grant No. 40708** from the Road and Urban Development General Directorate of Kohgiluyeh and Boyerahmad Province (2018)
- ☐ Awarded **research grant No. 266016** from the Management and Planning Organization of Kohgiluyeh and Boyerahmad Province (2021), (see Contract_2.pdf). (6,470,000,000 IRR)
- ☐ Honored as the director of the **best research project** of Yasouj University in 2019, selected by the Department of Science, Research and Technology, Iran (2020).
- ☐ Registered **professional engineer and instructor** of the Construction Engineering Organisation (since 2009).
- ☐ **Director and manager** of several national and regional research projects, (since 2010),
- ☐ Employed as **Academic Staff** at Department of Civil Engineering, Yasouj University, Iran (2016).
- ☐ Membership in **Excavation and Geotechnics Committee** of the Construction Engineering Organization of Kohgilouyeh and Boyer Ahmad province, (since 2015).
- ☐ Representative of Yasouj University in the **Special Earthquake and Landslide Workgroup** of Kohgilouyeh and Boyer Ahmad province, (since 2018).
- ☐ Published several research papers in prestigious and high-quality journals and conferences.

Research Interests

- ☐ Geotechnical Earthquake Engineering
- ☐ Underground Structures
- ☐ Soil-Structure Interaction
- ☐ Nonlinear Soil Modeling
- ☐ Numerical Methods in Engineering
- ☐ Structural Dynamics
- ☐ Seismic assessment and rehabilitation of structures

Journal Papers

1) Behnamfar F. and **Sayyadpour H.**, (2016), “The near-field method: a modified equivalent linear method for dynamic soil-structure interaction analysis. Part I: Theory and methodology”, *Bulletin of Earthquake Engineering*, 14(8), pp. 2361-2384. DOI 10.1007/s10518-016-9935-2.

2) **Sayyadpour H.**, Behnamfar F., M. Hesham El Naggar, (2016), “The near-field method: a modified equivalent linear method for dynamic soil-structure interaction analysis. Part II:

Verification and example application”, *Bulletin of Earthquake Engineering*, 14(8), pp. 2385-2404. DOI 10.1007/s10518-016-9871-1.

3) Farahani, D., Behnamfar, F., & **Sayyadpour, H.** and Ghandil, M., (2019), "Seismic impact between adjacent torsionally coupled buildings." *Soil Dynamics and Earthquake Engineering*, 117, pp.81-95.

4) Eftekhari, S.N., Kowsari, M. and **Sayyadpour, H.**, (2019) “Sensitivity analysis of the seismicity parameters to input assumptions and variables in probabilistic seismic hazard analysis”, *Asas Journal*, 20, 53, 51-64.

5) Farahani, D., Behnamfar, F., & **Sayyadpour, H.**, (2019), “Effect of pounding on nonlinear seismic response of torsionally coupled steel structures resting on flexible soil”, *Engineering Structures*, 195, 243-262.

6) Eftekhari, S.N., Kowsari, M. and **Sayyadpour, H.**, (2021), “An artificial neural network for predicting the near-fault directivity-pulse period”, *Journal of Earthquake Engineering*. pp.1-20.

7) **Sayyadpour, H.**, Eftekhari, S.N. and Kowsari, M., (2020), “Comparing different data- driven ranking methods and selecting appropriate GMPEs for performing PSHA in Zagros zone”, *Journal of Iranian Society of Civil Engineering (ASAS)*, 22(58), 35-46.

8) Behnamfar, F., **Sayyadpour, H.**, Mohammadi, A. and Omid, M., (2021), “Evaluation of the nonlinear static behavior of unstiffened steel plate shear walls with/without openings”, *Sharif Journal of Civil Engineering*, 37.2(1.1), 23-33. doi: 10.24200/j30.2020.54704.2662.

9) Eftekhari, S.N., **Sayyadpour, H.** and Kowsari, M., (2021), “A Near-fault probabilistic seismic hazard assessment for Yasouj city, located in the midst of the Kazerun fault system, Southwestern of Iran”, *Natural Hazards*, 105, 1945–1961. <https://doi.org/10.1007/s11069-020-04384-z>.

10) Behnamfar, F., Sayyadpour, H. and Eslami, Sh., (2021), “Evaluation of the YPS method for Regular RC Buildings Designed Based on the Iranian Standard 2800”, *AUT Journal of Civil Engineering*, 53(8).

11) Behnamfar, F., Nooraie, M., Pirasteh, S. and **Sayyadpour, H.**, (2021) “Spectral characteristics of 2011 East Tohoku and New Zealand earthquakes to determine corresponding response of a typical steel structure”, *Earthquake Engineering and Engineering Vibration*. (Under Review).

12) **Sayyadpour, H.** and Bazayr, M.H., (2022) “Site response analysis considering underground structures effects”, *Bulletin of Earthquake Science and Engineering*. (Under Review).

13) **Sayyadpour, H.**, (2022), “An Equivalent Linear method for dynamic soil-structure interaction analysis including inertial interaction effects.” *Bulletin of Earthquake Engineering*. (Under Review)

Conference Papers

1) **Sayyadpour H.**, Halabian A. M., “The Effect of liquefaction on The Seismic response of Pile Groups”, 4th National Congress on Civil Engineering, 6-8 May 2008, Tehran University, Tehran, Iran. (in Persian).

- 2) Halabian A. M., **Sayyadpour H.**, “Evaluating Buried Steel Gas Pipelines of Isfahan City under Liquefaction”, 8th International Congress on Civil Engineering, 11-13 May 2009, Shiraz University, Shiraz, Iran. (in Persian).
- 3) **Sayyadpour H.** , Behnamfar F., “Near-Field's Dynamic Properties for Dynamic Soil- Structure Interaction Analysis”, 2nd International congress on Structure, Architecture and Urban Development, Tabriz, Iran, 2014.
- 4) **Sayyadpour H.** , Behnamfar F., “Parametric Study of Inertial Soil-Structure Interaction Effects”, 2nd International congress on Structure, Architecture and Urban Development, Tabriz, Iran, 2014.
- 5) **Sayyadpour H.** , Behnamfar F., “The near-field method: a modified equivalent linear method for dynamic soil-structure interaction analysis”, 16th World Conference on Earthquake Engineering, Santiago, Chile, 2017.
- 6) **Sayyadpour H.**, Tabatabaie A., Poulak M., “Prefabrication of Substructure Elements of Concrete Highway Bridges”, 5th International Congress on Civil engineering, Architecture and Urban Development, 26-28 December 2017, Shahid Beheshti University , Tehran , Iran. (in Persian)
- 7) **Sayyadpour H.**, Eftekhari, S.N., “Sensitivity Analysis of Seismic Response of Concrete Box-Girder Bridge to Geometrical and Mechanical Specifications”, 11th National Congress on Civil Engineering, 30 May & 1 April 2019, Shiraz University, Shiraz, Iran. (in Persian).
- 8) Eftekhari, S.N., **Sayyadpour H.**, “Seismic Hazard Based Ground Motion Selection for Sadr Elevated Bridge, Considering Near-Fault Earthquake Directivity Effects”, 11th National Congress on Civil Engineering, 30 May & 1 April 2019, Shiraz University, Shiraz, Iran. (in Persian).
- 9) **Sayyadpour H.**, Eftekhari, S.N., “Evaluating seismic hazard for Shahid Beheshti hospital site located in Yasouj city”, The First International Conference on Improving Resilience of Healthcare and Critical Facilities, 29-30 Sep. 2019, Road, Housing and Urban Development Research Center, Tehran, Iran. (in Persian).
- 10) **Sayyadpour H.**, Eftekhari, S.N., “Evaluating earthquake-induced collapse probability for the Yasouj city hospitals”, The First International Conference on Improving Resilience of Healthcare and Critical Facilities, 29-30 Sep. 2019, Road, Housing and Urban Development Research Center, Tehran, Iran. (in Persian)
- 11) Saberi, H., Hosseini, S.J. and **Sayyadpour H.**, “Investigating frequency modes in the membrane structures”, 5th National Conference on Applied Researches in Civil and Architectural Engineering and Urban Development, 03 & 04 Jan. 2018, K. N. Toosi University of Technology, Tehran, Iran. (in Persian)
- 12) Abiari “Evaluating Seismic Fragility of Concrete Box-Girder Bridge with Shape-Memory Alloy Connections”, 12th National Conference on Civil Engineering, 28 & 29 May, 2020, Sahand University of Technology, Tabriz, Iran. (in Persian)

Research Projects

- 1) Member of the team on “Evaluating seismic behavior of Isfahan city gas network under strong ground motions”.
- 2) Member of the team on “Investigating damage reasons and proposing strengthening design for Saba Steel Complex slag ponds”.
- 3) Manager of two of the working teams on the project “Seismic Evaluation & Strengthening of EsfahanPower Plant and Shahrekord Power House”.
- 4) Manager of the working team on the project “Seismic Evaluation and Strengthening of Isfahan historical bazaars and case study of Hassan Abaad Bazaar”.
- 5) Manager of the working team on the project “Investigating the liquefaction hazard and estimating shear wave velocity in Kohgilouyeh and Boyer Ahmad province”.
- 6) Manager of the working team on the project “Study on Seismic Vulnerability and Crisis Management of Gas Supply Network of Yasouj City Against Earthquake”.
- 7) Manager of one of the working teams on the project “Seismic Evaluation & Strengthening of masonry schools of Kohgilouyeh and Boyer Ahmad province”.
- 8) Director of the project “Seismic microzonation of Yasouj city based on the progressive near-fault probabilistic seismic hazard analysis approach”. (2018, 620,000,000 IRR)
- 9) Director of the project “Seismic microzonation of Kohgilouyeh and Boyer Ahmad province”. (2021, 6,470,000,000 IRR)
- 10) Manager of the working team on the project “Probabilistic Seismic Hazard Analysis of Ahvaz City Considering Directivity Effects”
- 11) Manager of the working team on the project “Seismic Vulnerability of Gas Supply Network of Behbahan City Against Earthquake”.

Teaching Experience

- ☐ **Undergraduate:** Statics, Dynamics, Strength of Materials, Structural Analysis, Matrix Analysis, Soil Mechanics, Steel Structures, Concrete Structures, Earthquake Engineering.
- ☐ **Graduate:** Theory of Elasticity, The Finite Element Method, Advanced Steel Structures, Inelastic Analysis of Structures, Soil Dynamics, Structural Dynamics, Geotechnical Earthquake Engineering, Soil- Structure Interaction, Continuum Mechanics.

Professional Experience

- ☐ Designer of various geotechnical and structural projects, 2005 till now.
- ☐ Member of the peer reviewer team: rehabilitation of the schools of Isfahan province, 2006-2012.
- ☐ Registered professional engineer and instructor of the Construction Engineering Organization, since 2009 till now.
- ☐ Member of Excavation and Geotechnics Committee of the Construction Engineering Organization of Kohgilouyeh and Boyer Ahmad province, since 2015 till now.
- ☐ Academic staff at Faculty of Technology and Mining, Yasouj University, Iran, since 2016 till now.

- ☐ Representative of Yasouj University in the Special Earthquake and Landslide Workgroup of Kohgilouyeh and Boyer Ahmad province, since 2018 till now.
- ☐ Member of laboratory equipment advisory council of Yasouj University, since 2018 till now.
- ☐ Reviewer of several journals.
- ☐ Manager and director of several national and regional research projects, since 2010 till now.

Software	Skills
<input type="checkbox"/> <i>ABAQUS</i>	
<input type="checkbox"/> <i>OpenSees</i>	
<input type="checkbox"/> <i>Perform3D</i>	
<input type="checkbox"/> <i>DeepSoil</i>	
<input type="checkbox"/> <i>SHAKE2000</i>	
<input type="checkbox"/> <i>Seismosoft softwares</i>	
<input type="checkbox"/> <i>ETABS</i>	
<input type="checkbox"/> <i>SAP2000</i>	
<input type="checkbox"/> <i>SAFE</i>	
<input type="checkbox"/> <i>AUTO CAD</i>	
<input type="checkbox"/> <i>MATLAB</i>	
<input type="checkbox"/> <i>Plaxis</i>	
<input type="checkbox"/> <i>Plaxis 3D Tunnel</i>	
<input type="checkbox"/> <i>FLAC</i>	
<input type="checkbox"/> <i>FLAC 3D</i>	
<input type="checkbox"/> <i>Mathematica</i>	
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