Curriculum Vitae

Reem Salman ALSEHNAWI

Personal Information

Full Name	Reem Salman Al-Sehnawi
Date and Place of Birth	April 5, 1982 – Al-Jneineh, Syria
Nationality	Syrian Arab Republic
Marital Status	Married with two children
Current Address	Jaramana, Damascus, Syria
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Current Position	Dean of the Higher Institute of Earthquake Studies & Research, University of Damascus
Additional Role	Associate Professor at Higher Institute of Earthquake Studies & Research, University of Damascus Lecturer at the Private Arab International University

Education & Degrees

PhD, 24th March 2016 Utsunomiya University (Japan)/, Faculty of Architecture and Civil Engineering, Functional Materials Design course/ Structural Engineering Laboratory. Thesis candidate title: "Experimental Study on Dynamic Characteristics Dependency of Bridge Structures on Vibration Amplitude".

Master of Engineering, 24th March 2012 Utsunomiya University (Japan), Faculty of Architecture and Civil Engineering, Advanced Interdisciplinary Sci./, Structural Engineering Laboratory. Thesis candidate title: "Comparative Study on seismic Performance of Viaduct Bridge System with Different Types of Superstructure-Pier Connections".

Bachelor of Civil Engineering, 2006 Damascus University, Faculty of Civil Engineering, Department of Structural Engineering. Doing Re-design of Military Museum as a graduation project for Bachelor's degree.

Professional Experience

- Sep 2025 – Present: Dean of the Higher Institute of Earthquake Studies & Research, University of Damascus.

- Sep 2021 – Sep 2023: Academic Vice Dean, Higher Institute of Earthquake Studies & Research, University of Damascus.
- Sep 2020 – Sep 2021: Head of Department of Earthquake Structural Engineering, Higher Institute of Earthquake Studies & Research, University of Damascus.
- Sep 2018 – Present: Part-time Lecturer, Faculty of Civil Engineering, Private Arab International University.
- Apr 2016 – Present: Associate professor, Department of Earthquake Structural Engineering, Higher Institute of Earthquake Studies & Research, University of Damascus.
- Oct 2013 – 2016: Research Assistant, Structural Engineering Laboratory, Utsunomiya University, Japan
- Aug 2008 – Sep 2009: Teacher Assistant, Department of Earthquake Structural Engineering, Higher Institute of Earthquake Studies & Research, University of Damascus.
- 2006 – Jul 2008: Structural Design Engineer - Design and supervision of various projects including villas, high-rise buildings, schools, and hotels in Sweida and Damascus

Teaching Experience

- **Graduate Level – Higher Institute of earthquake Studies & Research (2016–Present)**
    - Courses: Structural Dynamics, Seismic Design of Reinforced concrete & Masonry Structures, Continuum Mechanics, Advanced Mathematics and Numerical Analysis.
    - Professional Master's Courses: Seismic Design of Reinforced concrete & Masonry Structures, Structural Dynamics Fundamentals, Seismic response analysis of structures, Analysis and design of infrastructures and Bridges.
- **Undergraduate Level – Arab International University (2018–Present)**
    - Courses: Structural Analysis I, II, III; Advanced Mechanics of Materials; Reinforced Concrete IV; Supervision of Final Projects

Research Supervision

- Co-Supervision of Ph.D.
- Supervisor of several Master's graduation projects (Earthquake structural Engineering).
- Reviewer in the Journal of Engineering Sciences/ Damascus University, Syria.
- Reviewer in the 1st SCCEE International Virtual Conference: Building the future innovations and challenges in sustainable civil engineering.

- Reviewer in the 2nd &3rd International conference in construction engineering, Damascus University, Syria.

Professional Memberships

- Member, Teachers' Union, Damascus University (2008–Present)
- Teacher Assistant, Higher Institute of Earthquake Studies& Research, Damascus University (2008–2016)
- Faculty Member, Higher Institute of Earthquake Studies& Research, Damascus University (2016–Present)
- Member, Engineers Syndicate, Sweida Branch (2007–2019)
- Member, Engineers Syndicate, Damascus Branch (2019–Present)
- Member, Japan Society of Civil Engineers (2009–2016)
- Member, Earthquake Structural Engineering Committee, Engineers Syndicate, Damascus (Apr 2021–Present)

Awards and Honors

- Al-Basel Certificate of Academic Excellence, University of Damascus (2005)
- 3rd Rank in Graduation, GPA: 78.44% – Very Good (2007)
- Syrian Government Scholarship for teacher Assistant, Damascus University, Syria, (2008–2016).
- Winner of the Syrian Young Woman Researcher Award, Syrian Young Woman Academy Competition, Damascus University, (2024).

Hobbies

- Reading, Mountaineering, Crochet, Traveling

Publications

1- Alrawas A., Alsehnawi R., Seismic performance assessment of Alqutiefeh Hospital using incremental dynamic analysis**,** Damascus University Journal for the Engineering Sciences, ISSN……, 2025. 03. (in Arabic)

2- Jabaly M., Alsehnawi R., Study the seismic response of reinforced concrete buildings retrofitted with a precast concrete frame reinforced with a steel plate, Damascus University Journal for the Engineering Sciences, ISSN 1999-7302, 2025. 02. (in Arabic)

3- Nour Alden R., Alsehnawi R., Analytical Study of a Cast-in place Joint of a Precast Prestressed Concrete Frame Under Cyclic Load, Damascus University Journal for The Engineering Sciences, ISSN 1999-7302, 2024. 02. (in Arabic)

4- Loho Z., Alsehnawi R., Using Buckling Restrained Braces to Improve the Dynamic Behavior of medium-Height Steel Frames, Damascus University Journal for The Engineering Sciences, ISSN 1999-7302, 2024. 02. (in Arabic).

5- Alrawas A., Alsehnawi R.,: Seismic Performance Assessment of Reinforced Concrete Buildings Using Collapse Fragility Curve. Passer Journal of Basic and Applied Sciences. Volume 6, Special issue, pp 1-13,2024. 1.
6- Faris S., Alsehnawi R., Studying the Seismic Response of Reinforced Concrete Buildings using a Hybrid Isolation System, Damascus University Journal for The Engineering Sciences, ISSN 1999-7302, 2023. 11. (in Arabic)
7- Mouhammad M., Alsehnawi R., Najjar D., Studying the Seismic Behavior of Short Columns in Existing RC Building Considering the Effect of Different Types of Soil, University Journal for The Engineering Sciences, ISSN 1999-7302, 10. 2023. (in Arabic)
8- Ghasson M., Algharrash A., Alsehnawi R.,: Study on the Vibration Amplitudes of Reinforced Concrete Bridges Piers Using ABAQUS Software. Association of Arab Universities Journal of Engineering Sciences, License: CC BY-NC 4.0, Dio: 10.33261/jaaru.2021.28.2.004, 2021. 6. (in Arabic)
9- Ghasson M., Alsehnawi R., Algharrash A.: Analytical Study of RC Bridges Piers by Enter Dynamic Characteristics Changes with Vibration Amplitudes. International Journal of Scientific& Engineering Research (IJSER), ISSN 2229-5518, 2019. 11.
10- Nakajima A., Maruyama S., AlSehnawi R., Takeda T., Nguyen M H ,.Fujikura S.: Reproduction analysis of vibration behavior of pier model having amplitude dependency damping. Journal of Japan Society of Civil Engineers, Ser. A1 (Structural Engineering & Earthquake Engineering (SE/EE), Vol.63A, 2017.3. (in Japanese)
11- Al Sehnawi R., Nakajima A., Takeshima R., and Al Sadeq H :.Experimental investigation of amplitude dependency of dynamic characteristics inelastic and inelastic stages of reinforced concrete pier model, Journal of Civil Structural Health Monitoring, Springer ,Volume 4, Issue 4, pp.289-301, 2014.11 .
12- Takeshima R., Al Sehnawi R., Nakajima A., Nakamura S., Yokokawa H . Study on change of vibration property of bridge structure with RC Pier in different vibration level. Japan Soc Civ Eng, Ser. A1 (Structural engineering and earthquake engineering (SE/EE)), JSCE A1 (structural and earthquake engineering), Vol.70 , No.4 , pp. I_130-139 , 2014.7. (in Japanese).
13- Saito T., Nakajima A., Takeshima R., and Al Sehnawi R.: Experimental investigation on vibrational property change of bridge model under various input leve. JSCE, Structural Engineering Papers, Vol.59A ,pp.261-271, 2013.3. (in Japanese).

Conference Presentations:

1. Faris S., Alsehnawi R, : Use of hybrid isolation system to improve seismic response of high RC frame buildings, 5th Arab Ministerial forum on housing and Urban Development, Tripoli, Libya, 2023. 12.
2. Ghasson M., Algharrash A., Alsehnawi R.,: Dynamic analysis considering damping variations with acceleration amplitudes in RC bridge, Engineering Scientific conference (SEC), Faculty of civil engineering, Damascus University, 2022.5.
3. Al Sehnawi R. and Nakajima A.: Comparative study on seismic performance of viaduct bridge system with seismic isolation bearing and with hybrid rigid frame connections, Proceedings of The International Workshop on Advances in Seismic Experiments and Computations, Nagoya, Japan, pp.187-199, 2012.3.
4. Al Sehnawi R., Nakajima A., Sakai R.: Analytical investigation of seismic performance of viaduct bridge system with lead rubber bearings and another with sliding bearings, 67th Annual Meeting of JSCE, Nagoya, Japan, to be held on September 5-7, 2012.
5. Al Sehnawi R., Nakajima A., and Al Sadeq H.: Analytical investigation of seismic performance of viaduct bridge system with seismic isolation bearing and another with hybrid rigid frame connections. Proceedings of the 1st International Conference on Sustainable Civil Engineering Structures and Construction Materials, in Yogyakarta, Indonesia, CD-ROM, 2012.9.
6. Al Sehnawi R., Nakajima A., Takeshima R. , Al Sadeq H., Nakamura S., and Yokokawa H.: Experimental studies on vibration properties changes of bridge with RC piers under different vibration level, 15th International Summer Symposium of 68th Annual Meeting of Japan society of civil Engineering JSCE, Chiba, Japan, pp. 15-16, September 4-6, 2013.
7. Al Sehnawi, R., Nakajima, A., Takeshima, R., Al Sadeq, H. and Saito, K.:Experimental investigation on dynamic characteristics of RC bridge model under different vibration levels, The Thirteenth East Asia-Pacific Conference on Structural Engineering and Construction, in Sapporo, Japan, CD-ROM, 2013.9. 2013.
8. Al Sehnawi, R., Nakajima, A., Takeshima, R. and Al Sadeq, H.: Vibration amplitude-dependent natural frequency and damping ratio of repaired pier model, 7th European Workshop on Structural Health Monitoring, EWSHM 2014, pp.1639-1646, in Nantes, France, 2014.7.