

Curriculum Vitae

Personal Information

Name: Mohammad Javad Yadegari

Date of Birth: 16 May 1996

City of Birth: Tehran-Iran | City of Residence: Tehran-Iran

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Fields of interests

- Additive manufacturing
- Fatigue and fracture
- Non-linear analysis
- Steel and concrete structures
- Mechanical properties
- Novel methods in the experimental approaches
- Numerical simulation

Education

- **Master of Science:** Structural Engineering (September 2019 – September 2022)
Department of Civil Engineering, [Khaje Nasir Toosi \(KNTU\) University of Technology](#), Tehran-Iran
Thesis topic: Experimental study of the strain ratcheting in additively manufactured 316L steel (18.9/20)
Supervisor: Prof. Dr. Mostafa Zeinoddini
Advisor: Dr. Mehdi Ezzati
GPA: 3.2/4
- **Bachelor of Science:** Civil Engineering (September 2014 - August 2019)
Department of Civil Engineering, [Islamic Azad University Central Tehran Branch](#), Tehran-Iran

Research Experiences

- **Research Assistant at [Khaje Nasir Toosi \(KNTU\) University of Technology](#), 2020-2022**
 - ✓ **Project:** Experimental and numerical modeling of fatigue in steel lattice structures fabricated by additive manufacturing method (2021-2022)
Supervisor: Prof. Dr. Mostafa Zeinoddini
Role: Literature review, preparing lattice structure, Experimental job
 - ✓ **Project:** Analytical and experimental fatigue crack growth under the Chaotic and random excitations (2021-2022)
Supervisor: Prof. Dr. Mostafa Zeinoddini
Role: Data acquisition (using strain gauge, accelerometer, and DIC), Formal analysis

- ✓ **Project:** Simulating the effect of hammer peening on residual stresses caused by welding and fatigue crack growth with XFEM (2020-2021)
Supervisor: Prof. Dr. Mostafa Zeinoddini
Role: Data acquisition, Data analysis, Numerical modeling assistant

Teaching Experiences

- **Teacher assistant at [Islamic Azad University Central Tehran Branch](#), 2023-current**
 - ✓ **Course:** Steel structures for B.Sc. students
 - ✓ **Lecturer:** Dr. Soheil Monajemi Nezhad
 - ✓ Developed my background in steel structures and developed my soft skills
- **Lecturer at [Civil class](#) website, 2020-2023**
 - ✓ **Course:** Strength of materials for engineers interested in the field
 - ✓ Developed my ability in content production and management as well as my background in solid mechanics
- **Teacher at [Parsamoozan](#) education group, 2013-2014**
 - ✓ **Course:** Mathematics for university entrance exam participants
 - ✓ Developed my teaching skill and enhanced my creativity to present the curriculum with different methods

Work Experiences

- **Structural engineer at [Maj](#) engineering group, 2016-2020**
 - ✓ Designed Steel & Reinforced Concrete Structures
 - ✓ Built Steel & Reinforced Concrete Construction
 - ✓ Retrofitted structures & Renovated buildings
- **Web designer at [RAH](#) company, 2015-2016**
 - ✓ Designed WordPress website
 - ✓ Content production
- **Public relations and Journalist at [Kasbokar](#) newspaper, 2014-2015**
 - ✓ Participated in several exhibitions and conferences on behalf of the journal
 - ✓ Enhanced my writing and reporting skills
 - ✓ Enhanced my soft skill related to human interactions

Publications

1. S. Arnavaz, M. Zeinoddini, M. Ezzati, A. P. Zandi, **M. J. Yadegari**, "Uniaxial strain ratcheting of steel butt-welded joints after multiple-repair welding," J. Brazilian Soc. Mech. Sci. Eng., vol. 44, no. 2, 2022, [doi: 10.1007/s40430-022-03363-8](https://doi.org/10.1007/s40430-022-03363-8).
2. **M. J. Yadegari**, M. Zeinoddini, M. Ezzati, M. Elchalakani, "On Strain Ratcheting of 316L Stainless Steel Parts Manufactured by Powder Bed Fusion: An Experimental Study" (*Under Review*)

3. M. Zeinoddini, M. Ezzati, **M. J. Yadegari**, M. Attari Dezfuli, “Ratcheting behaviour of conventional 316L steel under axial cyclic loading: An experimental study” (*Under preparation*)
4. M. Zeinoddini, M. Ezzati, **M. J. Yadegari**, “On the ratcheting behavior of dented submarine steel pipelines” (*Under preparation*)

Technical Skills

- **Civil Engineering Software:** [Etabs](#), Sap, [Safe](#), [Auto-CAD](#).
- **Finite Element Software:** [ABAQUS](#) (Professional: Modeling different structural members with different types of elements and materials, modeling [fracture mechanics](#), and topology optimization), [MSC Fatigue](#) (Fatigue Life Prediction)
- **Characterization of materials:** Mechanical testing (Tensile, Charpy, Fatigue, Ratcheting), OES, FESEM
- **Additive manufacturing software:** [Simufact Additive](#)
- **Image processing:** Digital image correlation (GOM Correlate software)
- **Programming skills:** Python
- **General Software:** Origin, Microsoft Office, Adobe Photoshop, WordPress, Mendeley.

Volunteering Involvement

- **Founder and manager of the [Civil class](#) website (online learning platform for civil engineering). 2020-2023**
- **Founder and manager of [Yek Kare Kheyr](#) NGO team, Tehran, Iran. 2016-2023**
- **Regular Blood donation at [Tehran Blood Transfusion Center](#), Tehran, Iran. 2017- 2023**

Language

- **Persian** (Native)
- **English** (*Academic IELTS*: Listening: 6, Reading: 8, Writing: 6, Speaking: 6.5; Overall Band Score: 6.5)

References

- **[Mostafa Zeinoddini](#)**, Professor, Khajeh Nasir Toosi (K. N. Toosi) University of Technology.
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- **[Nader Fanaei](#)**, Associate Professor, Khajeh Nasir Toosi (K. N. Toosi) University of Technology.
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- **[Mehdi Ezzati](#)**, Technical manager, Darya Negar Pars Consulting Engineers.
ezzati221@gmail.com