

CURRICULUM VITAE

Personal Information

First Name: Mohammad E-Mails: Mohammadhsu@gmail.com

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Researchgate: 

Google Scholar: 

Areas of Interest

- Construction materials
- Application of prediction methods on concrete technology
- Microstructure of cement-based materials
- Application of nanosilica on the strength of cement-based materials
- Green concrete
- Durable and sustainable concrete
- 3D printing concrete technology
- Corrosion of reinforced concrete

Educational Qualification

2015-2018 M.Sc. in Structural Engineering, Hakim Sabzevari University, Sabzevar, Iran.

- **Total GPA:** 18.47/20.0 (4/4)
- **Thesis title:** Evaluation and prediction the simultaneous effect of micro-silica and nano-silica particles on the properties of cement mortar produced by 42.5 MPa of cement strength class
- **Supervisor:** Dr. Hamid Eskandari-Naddaf, [Hakim Sabzevari University](#).
- **Description:** The simultaneous effect of nano and micro silica on the properties of cement-based materials has been studied, and the compressive and flexural strength of cement mortar is predicted by ANN and GEP. Experimental results showed that the simultaneous addition of NS and MS had a better effect on improving the properties of cement mortar. Results illustrated the optimum percentage of NS+MS for mechanical properties is different in various W/B; moreover, the analysis of variance showed that NS has a better effect on the improvement of compressive strength than MS has.

2012-2015 B.Sc. in Civil Engineering, Hakim Sabzevari University, Sabzevar, Iran.

- **Total GPA:** 16.58/20.0 (3.45/4)
- **Thesis title:** Optimization of concrete mix design with different standards (ACI, BS, DIN)
- **Supervisor:** Dr Hamid Eskandari-Naddaf, [Hakim Sabzevari University](#).

Honors and Achievements

2017-Present Serve as the Reviewer of the Construction and Building Materials journal (Elsevier) and the Journal of Materials in Civil Engineering (ASCE).

2014-2017 Ranked first, Master's Program (Structural Engineering). Department of Civil Engineering, Hakim Sabzevari University

Publications

Journal Papers:

- Divanedari, H., Eskandari-Naddaf, H., **Azimi-Pour, M.** [Synergistic effect of micro-nano silica and cement fineness on bond behavior between steel bar and concrete exposed to saline conditions](#). (Preparing for submission to journal of Materials in Civil Engineering).
- Divanedari, H., **Azimi-Pour, M.**, Eskandari-Naddaf, H., [Influence of micro and nano silica on the corrosion of rebar buried in concrete \(experimental study and microstructure investigation\)](#). (Preparing for submission to journal of corrosion science).
- **Azimi-Pour, M.**, Eskandari-Naddaf, H., & Pakzad, A. (2020). [Linear and non-linear SVM prediction for fresh properties and compressive strength of high volume fly ash self-compacting concrete](#). Construction and Building Materials, 230, 117021.
- **Azimi-Pour, M.**, & Eskandari-Naddaf, H. (2020). [Synergistic effect of colloidal nano and micro-silica on the microstructure and mechanical properties of mortar using full factorial design](#). Construction and Building Materials, 261, 120497.
- **Azimi-Pour, M.**, & Eskandari-Naddaf, H. (2018). [ANN and GEP prediction for simultaneous effect of nano and micro silica on the compressive and flexural strength of cement mortar](#). Construction and Building Materials, 189, 978-992.
- Eskandari, H., & **Azimi-pour, M.** (2016). [Performance evaluation of dry-pressed concrete curbs with variable cement grades by using Taguchi method](#). Ain Shams Engineering Journal
- Eskandari, H. **Azimi-Pour, M** & Kazemi, R. (2015). [Designing, Proposing and Comparing the Methods Predicting the Compressive Strength of the Ferro cement Mortar](#). Concrete Research Letters, 6(1), 1-10.

Conference Papers:

- H. Eskandari and **M. Azimi-Pour**, " [The effect of the cement strength class on the properties of cement paste, design and prediction of compressive strength of our ferrocement mortar](#)", 3rd International and 7th National Conference on Modern Materials and Structures in Civil Engineering, Hamedan, Iran, August 2018.
- H. Eskandari and **M. Azimi-Pour**, " [Optimization investigation and modeling of ferrocement mix design](#) ", Architecture, Civil Engineering and Urban Development Conference, Tabriz, Iran, May 2014.
- **M. Azimi-Pour** and H. Eskandari, " [Design and predict the compressive strength of Ferrocement mortar](#) ", 6th Concrete National Conference, Tehran, Iran, October 2014.

Academic Teaching and Research Experiences

Jan 2018-present

Lab researcher and teacher assistant, Department of Civil Engineering, Hakim Sabzevari University.

- Studied the simultaneous effect of micro- and nano-silica on the bond and corrosion behavior of concrete in harsh environments (experimental study and microstructure analysis).
- Teacher assistant and grader in concrete technology under the supervision of Dr. Eskandari-Naddaf.

Sep 2015-Dec 2018

Graduate student researcher, [Modern Concrete Technology Laboratory](#), Department of Civil Engineering, Hakim Sabzevari University.

- Administrated experimental studies in concrete technology projects on the simultaneous effect of micro-silica and nano-silica particles on the properties of cement-based materials.
- Developed prediction methods (ANN, GEP, SVR) to predict mechanical behaviors of cement-based materials.

- Conducted microstructural analysis (SEM, EDS, MIP, XRD) on the cement mortar produced with nano and micro silica and three different cement strength classes
- Studied the effect of different supplementary materials such as micro- and nano-silica, air-entraining admixtures, plasticizers, different types of fibers, and various reinforcements on the behavior of concrete elements and structures.

Sep 2016- Jan 2017	Teaching assistant, surveying under the supervision of Dr.Shadniya, Hakim Sabzevari University.
Jun 2013- Sep 2015	Research assistant, Modern Concrete Technology Laboratory , Department of Civil Engineering, Hakim Sabzevari University. <ul style="list-style-type: none"> • Studied the influence of different cement strength classes on the properties of ferrocement mortar considering different mix design standards (ACI, BS, DIN).
Sep 2013- Feb 2014	Lab assistant, laboratory of soil mechanics under the supervision of MS. Karimi, Hakim Sabzevari University.
Feb 2013- Sep 2013	Teaching assistant, surveying under the supervision of Dr. Shadniya, Hakim Sabzevari University.

Scientific meetings and conferences participation background

Aug 2019	Presented a research paper at the Third International Conference and 7th National Conference on Civil Engineering Materials and Structures
May 2015	Attended the National Conference on Architecture,Civil Engineering & Urban Modern Development.
Sep 2015	Attended the Sixth Annual National Concrete Conference of Iran.
Sep 2015	Specialized workshops: <ul style="list-style-type: none"> • The role of light weight aggregates in concrete curing. • The role of high-strength cement in the production of HPC concrete. • Restoring and improving the quality of concrete structures. • Sustainable development of the concrete industry.

Language Proficiency

Persian:	Native
English:	TOEFL Score (Overall: 98): taken on October 5, 2022 Reading: 24, Listening: 29, Speaking: 23, Writing: 22

Computer skills

Programming Languages:	Latex, Matlab (Numerical computing software),
Engineering Software:	Prediction softwares (Dtreg and GeneXpro tools), Minitab (Statistical analysis software), Etabs (Structural design/analysis software), Safe (Foundation design/analysis software), Sap (Structural design/analysis software), AutoCAD (Architectural/Drawing software), MS Project (Project Portfolio Management software)

Reference

[Available upon request](#)