

## Contact

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(LinkedIn)

[github.com/eshaghi-ms](https://github.com/eshaghi-ms) (Blog)

[scholar.google.com/citations](https://scholar.google.com/citations)

(Other)

[www.researchgate.net/profile/Mohammad-Es-Haghi](http://www.researchgate.net/profile/Mohammad-Es-Haghi)

(Blog)

## Top Skills

PyTorch

LaTeX

GraphPad Prism

## Languages

Azerbaijani (Native or Bilingual)

English (Full Professional)

Persian (Native or Bilingual)

German (Limited Working)

## Certifications

Microsoft Certified: Azure AI Fundamentals

## Honors-Awards

German Academic Exchange Service (DAAD) PhD Scholarship

Selected for VAC-2021-42 position in CIMNE

Guangdong (China) Government Outstanding International Student Scholarship

## Publications

List of all my publications

# Mohammad Sadegh Eshaghi

Ph.D Candidate in Scientific Machine Learning

Hannover, Lower Saxony, Germany

## Summary

Ph.D. candidate in Computational Mechanics

Leibniz University Hannover

Supervisor: Prof. Xiaoying Zhuang

Advisor: Prof. Dr.-Ing. Timon Rabczuk

Project Title: Machine Learning-based solutions of Partial Differential Equations (PDEs)

## Experience

University of Hanover

PHD Candidate

October 2023 - Present (1 year 1 month)

Hannover, Lower Saxony, Germany

Institut für Photonik

Supervisor: Prof. Ph. D. Xiaoying Zhuang (CHAIR OF COMPUTATIONAL SCIENCE AND SIMULATION TECHNOLOGY (CSST))

Co-supervisor: Prof. Dr.-Ing. Timon Rabczuk (Chair of Computational Mechanics)

Project Title: Machine Learning based solutions of Partial Differential Equations (PDEs)

CIMNE

Programmer (Python)

December 2021 - October 2022 (11 months)

Spain

International Center for Numerical Method in Engineering (CIMNE)

Naval and Marine Engineering Group (CIMNE MARINE)

Floating wind turbines (W2Power)

Project Title: Development, engineering, production and life-cycle management of improved FIBRE-based material solutions for structure and

functional components of large offshore wind enerGY and tidal power platform (FIBREGY) - European Project

Manager: Prof. Julio Garcia, Dr. Borja Servan Camas

### The Iranian Concrete Researchers (ICR)

Programmer - Structural Engineering

January 2019 - December 2021 (3 years)

Iran

Project Titles:

- 1- Development of software for the automatic analysis and design of industrial structures based on the national codes.
- 2- Making use of the ETABS Software output using MATLAB software to automatically prepare the plan of the steel structure on AutoCAD software.
- 3- Investigate the design of beam to column steel connections and the provision of software for automatic design of connections

### The Iranian Concrete Researchers

Structural Engineering

February 2017 - December 2018 (1 year 11 months)

Job Titles:

(a). Structural design of block B05 (30,000 m<sup>2</sup>) & B03 (10,000 m<sup>2</sup>) in Aghile-Bani-Hashem Sahn project, Karbala, Iraq

(b). QC of Structural design of the projects:

- 1- Tadbir 1000-bed hospital project, Tabriz,
- 2- Iran psychiatry hospital project, Tehran,
- 3- Ashayer 350-bed hospital project, Khorramabad,
- 4- Kerman 750-bed hospital project, Kerman,
- 5- Mohammad 1000bed hospital project, Shiraz,
- 6- Rab'-e Rashidi Institute project, Tabriz

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## Education

Leibniz Universität Hannover

Doctor of Philosophy - PhD, Nanotechnology · (September 2023 - September 2026)

Bauhaus-Universität Weimar

Doctor of Philosophy - PhD, Computational Mechanics · (November 2022 - September 2023)

Technical University of Madrid

Doctor of Philosophy - PhD, Naval Architecture and Marine Engineering · (December 2021 - November 2022)

Shenzhen University

Doctor of Philosophy - PhD, Civil Engineering · (July 2021 - December 2021)

K. N. Toosi University of Technology

Master's degree, Structural Engineering · (September 2013 - January 2017)