

SIAMAK SEYFI

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👤 7 May 1995

EDUCATION

- 2017 - 2019 **M.Sc. in Mechanical Engineering | Iran University of Science and Technology (IUST)**
Tehran, Iran
- Average mark: **18/20 (GPA: 3.88/4)**
 - Thesis title: Cavitation phenomenon visualization and experimental studies in flow with dissolved gas (**grade: excellent**)
- 2013 - 2017 **B.Sc. in Mechanical Engineering | University of Tabriz**
Tabriz, Iran
- Average mark: **16.88/20 (GPA: 3.53/4)**
 - Last year average mark: **18.17/20 (GPA: 3.83/4)**
 - Thesis title: Hydraulic design and overall efficiency improvement of EN 65-125 centrifugal pump (**grade: 19/20**)

FIELDS OF INTEREST

- Cavitation
- Multiphase flows
- Experimental fluid mechanics
- Computational fluid dynamics (CFD)
- Hydraulic machines
- Statistical analysis
- Optimization
- Design of experiments (DOE)

JOURNAL PUBLICATIONS

- **Experimental studies of hysteresis behavior of partial cavitation around NACA0015 hydrofoil**
Ocean Engineering
[S. Seyfi, N. M. Nouri | Dec 2020](#)
DOI: [10.1016/j.oceaneng.2020.107482](https://doi.org/10.1016/j.oceaneng.2020.107482)
- **An experimental study on partial cavity length utilizing response surface methodology and artificial neural network as data processing methods**
Ocean Engineering
[S. Seyfi, N. M. Nouri | Revised Manuscript](#)
- **Parametric study of bottom outlet air demand using statistical methods**
Journal of Applied and Computational Mechanics
[M. Moghimi, S. Seyfi, F. Salehzadeh | Under Review](#)

CONFERENCE PUBLICATIONS

- **June 2020** **Flow simulation around two consecutive cylinders in a rectangular channel**
5th **international** conference on the new horizons in the electrical engineering, computer and mechanic | (Persian), **S. Seyfi**, A. Nourbakhsh, P. Amjadi Majidazari
- **June 2020** **Experimental and numerical study of blade thickness effect on centrifugal pumps cavitation**
5th **international** conference on the new horizons in the electrical engineering, computer and mechanic | (Persian), A. Nourbakhsh, **S. Seyfi**, M. B. Ehghaghi
- **June 2019** **Experimental and numerical investigation to determine optimized geometric dimensions and angles of the centrifugal pumps blade profile to enhance overall efficiency**
6th **national** conference on mechanical, industrial & aerospace engineering of IRAN | (Persian), A. Nourbakhsh, **S. Seyfi**, M. B. Ehghaghi

TEACHING EXPERIENCE

- **Fluid Mechanics Teaching Assistant** | IUST | **Dr. Majid Siavashi** | Sep 2018 - Jan 2019
- **Fluid Mechanics Teaching Assistant** | IUST | **Dr. Nowrouz Mohammad Nouri** | Feb - June 2018
- **English Instructor** | Safir Danesh Language Academy | 2014 - 2017

RESEARCH EXPERIENCE

- **Applied Hydrodynamic Research Laboratory | School of Mechanical Engineering | IUST** | 2017 - Present
Working on hydrodynamic cavitation visualization using experimental methods and image processing techniques | **Dr. Nowrouz Mohammad Nouri**

WORK EXPERIENCE

- **Engineering Manager** | Arvin Share Pardaz Company | June 2018 - Sep 2019
Experimental and numerical modeling and testing of Silve, Balarood, and Safarood dam bottom outlets | **Dr. Mahdi Moghimi**
- **Trainee** | Iranian Pump Manufacturing Company (Pumpiran) | June - Aug 2017
Experimental test and numerical study of centrifugal pumps | **Dr. Mir Biuck Ehghaghi**

SKILLS

CFD (Fluent, Openfoam, Star ccm+)
CAD (Catia, Solidworks)
Programming languages (Python, C, Fortran)



Matlab
Minitab
ImageJ
Microsoft office



SELECTED COURSES

- **Advanced fluid mechanics** | M.Sc. | 2018 | **Mark=19.8/20**
- **Advanced measurement** | M.Sc. | 2018 | **Mark=18/20**
- **Viscous flow** | M.Sc. | 2018 | **Mark=19/20**
- **Application of hydraulics & pneumatics** | B.Sc. | 2016 | **Mark=19/20**
- **Hydraulic machines** | B.Sc. | 2016 | **Mark=18.5/20**
- **Turbomachinery** | B.Sc. | 2016 | **Mark=20/20**

LANGUAGE SKILLS

- **English** | Fluent
- **Turkish** | Fluent
- **French** | Familiar with
- **Azerbaijani** | Native
- **Persian** | Native

ACHIEVEMENTS

- 🏆 Among **top 10%** of the mechanical engineering M.Sc. class 2017 | IUST
- 🏆 Awarded **full scholarship** to study at IUST | M.Sc. ranked 192/25,000
- 🏆 Among **top 10%** of the mechanical engineering B.Sc. class 2013 | University of Tabriz
- 🏆 Awarded **full scholarship** to study at University of Tabriz | B.Sc. ranked 2261/300,000

VOLUNTARY ACTIVITIES

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| 2017 - 2018 | Editor in Chief "Momentum" Journal
<i>IUST</i> |
| 2016 - 2017 | Scientific Editor "Torque" Journal
<i>University of Tabriz</i> |
| 2015 - 2017 | Head of Education & Research Department Scientific Association of Mechanical Engineering
<i>University of Tabriz</i> |