

Skills

Programming



Software



Experimental techniques



Fluid dynamics



English language (IELTS)



GRE

In progress ...

Contact

- Tehran, Iran
- +98 (939) 8403218
- shayan.habibi@mech.sharif.edu
- shayanhabibi75@yahoo.com
- live:..cid.839e77a9a6cf6227
- Dept. Mechanical Engineering,
Sharif University of Technology,
Azadi St.

Personal information

Name	Birth date	Nationality
Shayan Habibi	22 Jan. 1997	Iranian

Education

- 2019 – Date** MS in mechanical engineering
Sharif University of Technology (SUT), Tehran, Iran
 - Project advisor: Dr. B. Firoozabadi
 - Cumulative average: 19.25/20 (4/4)
- 2015 – 2019** BS in mechanical engineering
Iran University of Science Technology (IUST), Tehran, Iran
 - Project advisor: Dr. M. Siavashi
 - Cumulative average: 17.39/20 (3.72/4)
- 2011 – 2015** Diploma in physics and mathematics
Salam high school, Tehran, Iran
 - Cumulative average: 19.63/20

Research interests

- Computational Fluid Dynamics (CFD)
- Turbulent Flows
- Large Eddy Simulation (LES)
- Buoyancy Driven Flows
- Jet Flows
- Optical Flow Diagnostic Techniques

Honours and awards

Ranked 2nd in MS program

Sharif University of Technology (SUT), Tehran, Iran

Ranked 6th in MS program entrance exam

National Organization of Educational Testing, Iran

Candidate for direct MS program

Iran University of Science and Technology (IUST), Tehran, Iran

Ranked 3rd in Flamenco guitar competitions

Second competition of performing Flamenco guitar, Qazvin, Iran

Publications

- Journal**
2. **Habibi, S.**, Azadi, A., Firoozabadi, B., "Identification of coherent structures in inclined negatively buoyant jets with sloped beds", (Under preparation).
 1. **Habibi, S.**, Azadi, A., Firoozabadi, B., "Large eddy simulation of inclined negatively buoyant jets with sloped beds", (Submitted).
- Conference**
2. **Habibi, S.**, Azadi, A., Ashanani, A. A., Firoozabadi, B., "Evolution of Shear and Buoyancy Driven Vortices of an Inclined Negatively Buoyant Jet", 19th Fluid Dynamics Conference, 2021, Tehran, (Under preparation).
 1. **Habibi, S.**, Azadi, A., Firoozabadi, B., "Numerical investigation of the sea bed inclination effects on the spreading of inclined dense jets discharged from reverse osmosis desalination plants", The 7th International Conference on Environmental Engineering and Natural Resource, 2021, Tehran, (In Persian).

Relative coursework

Computational Fluid Dynamics (CFD) <i>Grade: 20/20</i>	Advanced numerical analysis <i>Grade: 19.5/20</i>	Advanced fluid mechanics <i>Grade: 20/20</i>
Continuum mechanics <i>Grade: 19/20</i>	Convective heat transfer <i>Grade: 19/20</i>	Advanced mathematics I <i>Grade: 20/20</i>

Teaching experience

Teaching assistantship

- Numerical analysis, Instructor: Dr. M. Aryanpour, 2021
- Advanced fluid mechanics, Instructor: Dr. A. Moosavi, 2021
- Advanced mathematics I, Instructor: Dr. A. Moosavi, 2020
- Fluid mechanics I, Instructor: Dr. M. Siavashi, 2017

Projects

Currently	MS project <i>Sharif University of Technology (SUT), Centre of Excellence in Energy Conversion (CEEC)</i> Thesis title: Numerical investigation of the seabed inclination effects on mixing characteristics of the brine discharged jet from desalination plants Advisor: Dr. B. Firoozabadi
2020	Optical measurement systems and lab. <i>Sharif University of Technology (SUT), Centre of Excellence in Energy Conversion (CEEC)</i> Velocity measurements using Particle Image Velocimetry (PIV): <ol style="list-style-type: none">1. Mixing of a non-buoyant jet2. Convective heat transfer3. Swirl mixing

Concentration and temperature measurements using Laser Induced Fluorescence (LIF):

1. Mixing of a vertical dense jet
2. Mixing of a vertical cold jet

2020

Case study in fluid dynamics

Sharif University of Technology (SUT)

Similarity solutions of power-law gravity currents propagating in confined and unconfined beds

2020

Case study in continuum mechanics

Sharif University of Technology (SUT)

Analytical solutions of oscillatory couette flow of an Oldroyd B fluid using Fourier transform theorem

2020

Case study in heat and fluid flow

Sharif University of Technology (SUT), Centre of Excellence in Energy Conversion (CEEC)

Analytical solutions for an electro-osmotic flow in a slit micro-channel

2019

BS project

Iran University of Science and Technology (IUST)


Thesis title: Mathematical modelling and simulation of the pulse and investigating the affecting factors


Advisor: Dr. M. Siavashi

References

Dr. B. Firoozabadi


Professor


 Sharif University of Technology (SUT)

 firoozabadi@sharif.edu

Dr. M. T. Manzari

Professor

 Sharif University of Technology (SUT)

 mtmanzari@sharif.edu