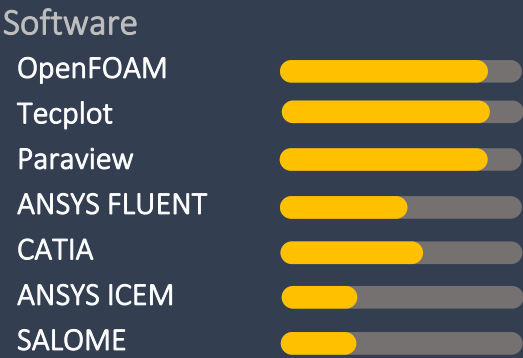


Skills



Contact

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Personal Information

Name	Birth date	Nationality
Shayan Habibi	22 Jan. 1997	Iranian

Education

2019 – Date	MS in Mechanical Engineering <i>Sharif University of Technology (SUT), Tehran, Iran</i> <ul style="list-style-type: none">Project advisor: Dr. B. FiroozabadiGPA: 19.25/20 (4/4)
2015 – 2019	BS in Mechanical Engineering <i>Iran University of Science Technology (IUST), Tehran, Iran</i> <ul style="list-style-type: none">Project advisor: Dr. M. SiavashiGPA: 17.39/20 (3.722/4)
2011 – 2015	Diploma in Physics and Mathematics <i>Salam high school, Tehran, Iran</i> <ul style="list-style-type: none">GPA: 19.63/20

Research Interests

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

Honors and Awards

- Ranked 4th (out of 119) 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**
4. **Habibi, S.**, Azadi, A., Firoozabadi, B., "Identification of coherent structures in inclined negatively buoyant jets with sloped beds", (Under preparation).
 3. Azadi, A., Firoozabadi, B., Ashanani, A. A., **Habibi, S.**, "Effects of bed obstacles on the behavior of inclined dense jets", (Under review).
 2. Jafari, M., Jamshidian Ghalehsefidi, M., **Habibi, S.**, "Application of Numerical Simulation to Solid Phase-Microextraction for Decrease of Extraction Time", (Under review).
 1. **Habibi, S.**, Azadi, A., Firoozabadi, B., "Large Eddy Simulation of Inclined Negatively Buoyant Jets with Sloped Beds", (Under review).
- 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.
 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 Engineering Mathematics I, Instructor: Dr. A. Moosavi, 2020
- Fluid Mechanics I, Instructor: Dr. M. Siavashi, 2017

Projects

2019 - 2021 MS project









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

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 jet 2. Convective heat transfer 3. Swirl mixing Concentration and temperature measurements using Laser Induced Fluorescence (LIF): <ol style="list-style-type: none"> 1. Mixing of a vertical dense jet 2. Mixing of a vertical cold jet
2020	Case study in fluid dynamics <i>Sharif University of Technology (SUT)</i> Similarity solutions of power-law gravity currents propagating in confined and unconfined beds
2020	Case study in continuum mechanics <i>Sharif University of Technology (SUT)</i> Analytical solutions of oscillatory couette flow of an Oldroyd B fluid using Fourier transform theorem
2020	Case study in heat and fluid flow <i>Sharif University of Technology (SUT), Centre of Excellence in Energy Conversion (CEEC)</i> Analytical solutions for an electro-osmotic flow in a slit micro-channel
2019	BS project <i>Iran University of Science and Technology (IUST)</i> 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
Dr. A. Moosavi Associate Professor  Sharif University of Technology (SUT)  moosavi@sharif.edu	Dr. M. Aryanpour Assistant Professor  Sharif University of Technology (SUT)  aryanpour@sharif.edu