

Curriculum Vitae

Mohammad Hossein Arabnejad Khanouki

PhD student

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Education

- **Ph.D. Shipping and Marine Technology, Hydrodynamics**, Chalmers University of Technology, Gothenburg, Sweden (October 2015- present)
 - Thesis: Simulation of The Hydrodynamic Energy Cascade in Erosive Cavitation
- **M. Sc. Aerospace Engineering, Propulsion**, Sharif University of Technology, Tehran, Iran (September 2010- January 2013)
 - Thesis: Large Eddy Simulation of a Low Swirl Reacting Turbulent Jet Flow using a Simple Combustion Model
 - Overall GPA: 18.29/20
- **B. Sc. Aerospace Engineering**, Amirkabir University of Technology, Tehran, Iran (September 2006- September 2010)
 - Thesis: Gas Turbine Analysis and Design
 - Overall GPA: 17.02/20

Work Experience

- **Research Assistant**, Department of Aerospace Engineering, Sharif University of Technology, Tehran, Iran(January 2013 –September 2014)
 - Large Eddy Simulation of Low Swirl Reacting Flows

Research Interests

- Computational Fluid Dynamics.
- Multiphase Flows
- Turbulent flow physics and LES/DNS modeling.
- Modeling of Turbulent Reacting Flows

Honors and Awards

- Ranked **3rd** amongst 17 M. Sc. Students in Aerospace Engineering, Propulsion, Sharif University of technology (2013).
- Ranked **8th** in Nation-Wide Entrance Examination for Graduate Studies in Aerospace Engineering, amongst around 1,000 participants, Iran, (2010).
- Ranked **5th** amongst 55 B. Sc. Students in Aerospace Engineering, Amirkabir University of Technology (2010).
- Distinguished Master thesis, 13th Conference of the Iranian Aerospace Society, Tehran, Iran, 2014.

Publications

1. **Arabnejad, M. H.**, and Farshchi, M. “*Large Eddy Simulation of a Low Swirl Reactive Jet*” Presented in The 12th Conference of Iranian Aerospace Society, 2013.
2. Shahsavari M., **Arabnejad, M.H.**, and Farshchi, M. “*Investigation of the Influence of Swirl on a Low Swirl Reactive Jet*”, Presented in The 5th Fuel and Combustion Conference of Iran, 2014.
3. **Arabnejad, M. H.**, Shahsavari M., and Farshchi, M. “*Large Eddy Simulation of a Coannular Swirl Jet*”, Presented in The 13th Conference of Iranian Aerospace Society, 2014.
4. **Arabnejad, M. H.**, Shahsavari M., and Farshchi, M. “*A Numerical Study of the Effect of Swirl Number on Premixed Low Swirl Combustion*”, Fuel and Combustion Journal, 8-1,2015.
5. Shahsavari M., **Arabnejad, M.H.**, and Farshchi, M. “*Large Eddy Simulation of Low Swirl Flow Characteristics*”, presented in the 14th International Conference of Iranian Aerospace Society, 2015.
6. Shahsavari M., **Arabnejad, M.H.**, and Farshchi, M, “*Large Eddy Simulations of Unconfined Non-reacting and Reacting Turbulent Low Swirl Jets*”, submitted.

Language Skills

- GRE test taken at 12th of October 2013, scored **164** out of 170 for quantitative section, **156** out of 170 for verbal section, and **3.0** out of 6.0 for analytical writing section.
- TOEFL iBT test taken at 12th of January 2014, scored **103** out of 120. (Reading: **29**, Listening: **28**, Speaking: **23**, Writing: **23**).

Computer and Programming Skills

- In depth practical experience and programming with **OpenFOAM** code, C++, and **FORTRAN**.
- Familiar with **MATLAB**, **Tecplot**, **Catia**, **Fluent**, **Gambit**, and **CHEMKIN**.

References

- **Prof. Bensow**, Chalmers University of Technology, Gothenburg, Sweden, E-mail: rickard.bensow@chalmers.se
- **Prof. Farshchi**, Sharif University of Technology, Tehran, Iran, E-mail: farshchi@sharif.edu
- **Prof. Tabejammatt**, Amirkabir University of Technology, Tehran, Iran, E-mail: sadegh@aut.ac.ir