

Ebrahim Ghahramani

Curriculum Vitae

Contact Information:

Position: PhD Student

Address: Hörselgången 4, Campus Lindholmen, Chalmers University of Technology, Gothenburg, Sweden

E-mail: ebrahim.ghahramani@chalmers.se

Education:

Chalmers University of Technology, Gothenburg, Sweden 2015-2020

Ph.D., Shipping & Marine Technology

Thesis: Modeling for Incompressible LES using a DNS-based bubble dynamics

Shiraz University, Shiraz, Iran 2010-2013

M.Sc., Mechanical Engineering

Thesis: Analysis of micro and nano particle deposition in turbulent flow in a realistic model of human upper airway using RANS/stochastic and LES methods

Shiraz University, Shiraz, Iran 2006-2010

B.Sc., Mechanical Engineering

Thesis: Finding the drag force on a blunt body using various turbulence models

Research Interests:

- Computational Fluid Dynamics
- Multiphase Flows
- Turbulent Flows
- Large Eddy Simulation
- Fluid Mechanics of Aerosols

Publications:

E. Ghahramani, O. Abouali, H. Emdad, G. Ahmadi. (2014) “Numerical analysis of stochastic dispersion of micro-particles in turbulent flows in a realistic model of human nasal/upper airway”, *Journal of Aerosol Science*, <http://dx.doi.org/10.1016/j.jaerosci.2013.09.004>.

E. Ghahramani, O. Abouali, H. Emdad, G. Ahmadi. (2014) “LES of turbulent airflow field and microparticle deposition in a realistic model of human upper airway”, *ASME Fluid Engineering Division Summer Meeting*, August 3-7, Chicago, Illinois, USA

E. Ghahramani, O. Abouali, H. Emdad, G. Ahmadi. (2013) “Numerical analysis of micro-particle deposition in turbulent flows in a realistic model of human upper airway”, *21st Annual International Conference on Mechanical Engineering-ISME2013*, May 7-9, Tehran, Iran.

Academic Teaching Experiences:

Lecturer:

- Energy Management, Islamic Azad University of Arsanjan, 2013-2014
- Application of Renewable Energies, Islamic Azad University of Arsanjan, 2013-2014
- Fundamentals of Engineering Drawing, Islamic Azad University of Neyriz, 2012-2013
- FLUENT workshop, Shiraz University, Summer 2012

Teaching Assistant:

- Fluid Mechanics I, Shiraz University, 2010 - 2012
- Fluid Mechanics II, Shiraz University, 2010 - 2012

Work Experiences:

- Mechanical Engineer, Petrochemical Industries Design & Engineering Company (PIDEC), Shiraz, Iran, Aug-Nov 2015
- Research Assistant, Fars Science & Technology Park, Shiraz, Iran, Dec 2014- Aug 2015
- Fire Simulation in Shiraz Urban railway, Shiraz University, Shiraz, Iran, Sep 2013- Dec 2014
- Engineering Internship, Petrochemical Industries Design & Engineering Company (PIDEC), Shiraz, Iran, Summer 2010

Technical Proficiencies:

Computer Skills:

Programming (Fortran, MATLAB, Maple, C), Open FOAM, FLUENT, Gambit, ANSYS ICEM, AutoCAD, Tecplot, Mimics

Languages:

- Persian (Farsi): Native
- English: Fluent
- French: Elementary

Academic Awards/Honors:

- M.Sc. in Mechanical Engineering, ranked 2nd (class 2013)
- B.Sc. in Mechanical Engineering, ranked 3rd (class 2010)

- Chosen as an exceptional talented student in Shiraz University and accepted for studying M.Sc. without national entrance exam
- Won acceptance in first stage of the National Mathematics Olympiad Exams, 2004

References:

Associate Prof. Omid Abouali

School of Mechanical Engineering, Shiraz University, Iran

Email: abouali@shirazu.ac.ir

Homepage: <http://home.shirazu.ac.ir/~abouali/>

Associate Prof. Homayoon Emdad

School of Mechanical Engineering, Shiraz University, Iran

Email: hemdad@shirazu.ac.ir

Prof. Goodarz Ahmadi

Department of Mechanical & Aeronautical Engineering, Clarkson University, Potsdam NY, USA

Email: gahmadi@clarkson.edu