

Saeed Bidi

CONTACT INFO

saeed.bidi@city.ac.uk
saeed.bidi67@gmail.com
+44 7555712693

EDUCATION

- Sharif University of Technology, Master of science in Aerodynamics, (2014-2017)
Thesis: Implementing appropriate numerical filters in Lattice Boltzmann Method for solving high density ratio flows
Thesis grade 19.5/20
- Khajeh Nasir Toosi University of Technology, Bachelor of Science in Aerospace Engineering (2007-2012)

RESEARCH INTERESTS

- Biofluid flow simulation
- Numerical development
- Lattice Boltzmann method
- Mathematical modeling
- Machine learning

HONORS AND AWARDS

- Ranked among the 0.3% top students out of more than ten thousand participants in Iranian Nationwide University Entrance Exam for Graduate Degree

TEACHING EXPERIENCES

- Paya Team, Programming tutor (2013-2014)
- Private tutor for Nationwide University Entrance Exam (2017-2018)

RESEARCH EXPERIENCES

- City, University of London (2019-present)
 - Investigation of biofluid flow with a focus on thermal effects
 - Numerical simulation of cavitation using a compressible finite volume solver in OpenFOAM
 - Implementation of PC-SAFT equation of state on fluid dynamics
 - Development of a numerical solver to capture thermal effects in blood flow cavitation caused by High-intensity focused ultrasound
- Sharif University of Technology (2015-2018)
 - Developing numerical filters and sensors to stabilize high density ratio flows with Lattice Boltzmann method

PUBLICATIONS

- S. Bidi, K. Hejranfar. "Using numerical filters in the central difference Lattice Boltzmann Method to simulate flow with a high density ratio.", *17th Fluid Dynamics Conference (2017)*, [Civilica CFD17-035](#)

SOFTWARE AND COMPUTER SKILLS

- Programming: FORTRAN, C++, Matlab, Python
- Engineering Software: OpenFOAM, Fluent, Gambit, TecPlot, ParaView, Ansys, COMSOL
- Others: Wordpress, L^AT_EX, MS-Office software (Powerpoint, Excel, Word, etc.)

LANGUAGE CERTIFICATES

- English:
 - IELTS, Score: 7
 - TOEFL iBT, Score: 97
 - GRE, Score: 307

STRENGTH

- Teamwork skills
- Creativity and Intelligence
- Critical Thinking
- Communication skills

HOBBIES

- Sports (Soccer, Swimming, Volleyball, Table Tennis, Chess master)
- Writing
- Music
- Travelling
- Books (Novel, Philosophy)

REFERENCES

- [Prof. Manolis Gavaises](#), City, University of London
Email: m.gavaises@city.ac.uk
- [Prof. Kazem Hejranfar](#), Sharif University of Technology
Email: khejran@sharif.edu
- [Prof. Alireza B. Novinzadeh](#), Khajeh Nasir Toosi University of Technology
Email: novinzadeh@kntu.ac.ir