

Curriculum vitae

PERSONAL INFORMATION

- Ramin Ranjbarzadeh
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- 8 https://scholar.google.com/citations?hl=it&authuser=1&user=WyCkFK4AAAAJ

Objective

"I am a Ph.D. graduate in "INGEGNERIA AMBIENTALE E IDRAULICA" from the Sapienza University of Rome, focusing on fluid dynamics. Theoretically, I am familiar with laboratory techniques to measure velocity field in urban canopies. My interdisciplinary approach combines experimental experiences with computational analysis, aligning with the research project's objectives for your research group. I am eager to contribute my analytical skills and collaborative spirit to advance the understanding of environmental flows within urban landscapes."

WORK EXPERIENCE

2019– May 2023	Research and study as a Ph.D. student at the Sapienza University of Rome.
2018–2019	Member of Modern Manufacturing Technologies Research Centre, IAUN, Iran.
2016–2019	Lecturer (Part-Time); Department of Mechanical Engineering, IAUN
2015–2019	Researcher as a member of the Young Researchers and Elite Club also work at the advanced nanofluids laboratory (IAUN)
2011–2012	Private tutor in Physics and Mathematics.

Sep 2019– May 2023	Ph.D. Student in INGEGNERIA AMBIENTALE E IDRAULICA Department of Civil, Constructional and Environmental Engineering, Sapienza University of Rome, Rome, Italy.			
	Thesis subject: Lattice Boltzmann modeling Fluid flow and heat transfer through porous media			
	 A passion for various engineering simulations and a desire to learn fast Have a good knowledge of fluid flow and heat transfer in different physics Ability to work in grout research and as a team leader Positive personality and open to communication 			
Sep 2013–Feb 2016	Master of Mechanical Engineering _ Energy conversion Department of Mechanical Engineering, Islamic Azad University, Isfahan, Iran.			
	Thesis subject: "Experimental and Numerical study on heat transfer of a nanofluid in a tube which using twisted tape inserts under air crossflow at a wind tunnel".			
	Top student award in Department of Mechanical Engineering			
	Top Researcher Award in the university			
Jan 2008–Jan 2012	Bachelor of Mechanical Engineering			
	Final Project: A review on the role of renewable energy sources in environmental protection			
	Department of Mechanical Engineering, IAUKHSH, Isfahan, Iran			
RESEARCH PROJECTS				
	An experimental study on the synthesis and preparation of eco-friendly nanoparticles			
2018 - 2019	I carried out this research project as responsible at the Department of			
	Mechanical Engineering, Najafabad Branch. Young researchers and elite club			
	of the university financially supported this research.			
	Research project number:			
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	Numerical simulation of fluid flow and heat transfer through porous media in
2020 - 2021	a microchannel-
	Carried out at DICEA as a Progetti per Avvio alla Ricerca.
	Protocol number:
2021 - 2022	Lattice Boltzmann Method for fluid flow and heat transfer through porous
	media.
	Carried out at DICEA, as a Progetti per Avvio alla Ricerca .
	Protocol number:
2022 - 2023	Lattice Boltzmann Method for fluid flow through porous media: tortuosity,
	porosity and pressure drop in Pore-Structure topologies.
	Carried out at DICEA, as a Progetti per Avvio alla Ricerca.
	Protocol number:

PERSONAL SKILLS

Foreign language	UNDERS	UNDERSTANDING		SPEAKING	
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	C1	C1	C1
	Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages - Self-assessment grid				

Organisational/manageria skills	Handle responsibility
	Creative thinking; Reviewing, reporting, and research
	Multitasking and Team leadership

Digital skillsAnsys FluentCOMSOL MultiphysicsProgramming; Python, Fortran and MATLABMachine learningMicrosoft OfficeSigma Plot and Tecplot

flow field * Experimental and numerical studies for fluid flow and heat transfer * Urban fluid mechanics * Atmospheric boundary layers * Air pollution challenges * Turbulent flow * Advances in Porous Media * Lattice Boltzmann approach HONOURS AND AWARDS Top student award in M.Sc. Courses, Department of Mechanical Engineering, IAUN, Iran In 2016 I* place team award, Iran Nanotechnology Initiative Council (INIC), Iran, 2016 I* place team award, Iran Nanotechnology Initiative Council (INIC), Iran, 2016 I* place team award, Iran Nanotechnology Initiative Council (INIC), Iran, 2016 I* place, The 4 th Nanotechnology festival, 2019, Iran REVIEWER International Journal of Heat and Mass Transfer, Powder Technology, Journal of Thermal Analysis and Calorimetry, International Journal of Refrigeration, Journal of Molecular Liquids, Journal of Energy Storage, Mathematical Methods in the Applied Sciences, International Journal of Numerical Methods for Heat & Fluid Flow. Selected publications Book chapter Afrand, M., & Ranjbarzadeh, R. (2020). Hybrid nanofluids preparation method. In Hybrid nanofluids for convection heat transfer (pp. 49-99). Academic press.	Research intere	ests * Laboratory measurement techniques for the acquisition of flu			
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analysis of heat transfer and friction factor of water/graphene oxide nanofluid flow in turbulent regime		analysis of heat transfer and friction factor of water/graphene oxide nanofluid flow in turbulent regir			
through an isothermal pipe. Applied Thermal Engineering, 126, 538-547.		through an isothermal pipe. Applied Thermal Engineering, 126, 538-547.			



Ranjbarzadeh, R., Isfahani, A. M., Afrand, M., Karimipour, A., & Hojaji, M. (2017). An experimental study on heat transfer and pressure drop of water/graphene oxide nanofluid in a copper tube under air crossflow: applicable as a heat exchanger. Applied Thermal Engineering, 125, 69-79.

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Al-Rashed, A. A., Ranjbarzadeh, R., Aghakhani, S., Soltanimehr, M., Afrand, M., & Nguyen, T. K. (2019). Entropy generation of boehmite alumina nanofluid flow through a minichannel heat exchanger considering nanoparticle shape effect. Physica A: Statistical Mechanics and its Applications, 521, 724-736.

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Chaabane, R., D'Orazio, A., Jemni, A., Karimipour, A., & Ranjbarzadeh, R. (2021). Convection inside nanofluid cavity with mixed partially boundary conditions. Energies, 14(20), 6448.

Ranjbarzadeh, R., Akhgar, A., Taherialekouhi, R., D'Orazio, A., Mohammad Sajadi, S., Ghaemi, F., & Baleanu, D. (2022). Improve the heat exchanger efficiency via examine the Graphene Oxide nanoparticles: a comprehensive study of the preparation and stability, predict the thermal conductivity and rheological properties, convection heat transfer and pressure drop. Journal of Thermal Analysis and Calorimetry, 147(13), 7509-7521.

D'Orazio, A., Karimipour, A., & Ranjbarzadeh, R. (2023). Lattice Boltzmann modelling of fluid flow through porous media: A comparison between pore-structure and representative elementary volume methods. Energies, 16(14), 5354.

Ramin Ranjbarzadeh and Giuseppe Sappa*, Numerical and experimental study of fluid flow and heat transfer in porous media: A review article" Under review.

InternationalR. Ranjbarzadeh and Giuseppe Sappa, " Developing a new form of the Kozeny–Carman equation at
pore-scale porous medium ", International Conference Mechanical, Industrial and Production Engineering
(ICMIPE-23), 2-3 November 2023, Paris, France.

A. D'Orazio, A. Karimipour, **R. Ranjbarzadeh***, "Lattice Boltzmann Model of fluid flow in porous media: tortuosity and porosity effects", The 18th International Conference for Mesoscopic Methods in Engineering and Science, June 27 - July 1 2022, La Rochelle, France.

R. Ranjbarzadeh, A.h. Meghdadi, M. Nouri, D. Shirazi, "The Experimental Investigation of Effects of Ultrasonic Wave Period and Acidity of Basic Fluid on Stability of Water/Graphene Oxide Nanofluid ", International Conference on research in Science and Engineering, 4 - 7 February 2019, Tehran, Iran.

D. Shirazi, **R. Ranjbarzadeh**, M. Nouri, "An experimental study on viscosity of CuO-ZnO/ engine oil: effects of temperature and nanoparticles concentration ", 25th International Conference on Mechanical Engineering, 2-3 May 2017, Tehran, Iran.

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the European Union's General Data Protection Regulation (GDPR) for the period of one year or until I withdraw my consent."