Curriculum Vitae

PERSONAL INFORMATION	Gholamreza Masoudi Rad				
RESEARCH INTERESTS					
Environmental Engineering	Biofuel production, Biomass conversion technologies, Water and Wastewater Engineering, Air Pollutants Control, Renewable Energies				
Computational Fluid Dynamic	Fluid Mechanics, Heat Transfer, Combustion, Multiphase Flow, CFD				
EDUCATION AND TRAINING					
2021-Now	M.Sc. in Chemical Engineering (chemical engineering for innovative processes and products) Total Average: 27.70/30 Sapienza University of Rome, Italy Taught entirely in English				
	 Thesis: Modelling of Hydrodynamic cavitation for waste hydrocarbon cracking by the Method of CFD (Fluent) Supervisors: Prof. G. Vilardi, Eng. Daniele Patrizi, Valentina Segneri 				
2014-2018	 B.Sc. in Chemical Engineering Total Average: 17.65/20 Petroleum University of Technology, Ahwaz, Iran Ranked First among students of chemical engineering Thesis: Modelling of Turbulent Forced Convection Heat Transfer of Non-Newtonian Nanofluids by the Method of CFD Supervisors: Prof. A. Shariati, Dr. B. Bazooyar 				
2020	Introduction to Programming with MATLAB by École Vanderbilt University in Nashville, Tenn, US, from coursera				
	 9 weeks of study, 3-4 hours/week, Grade Achieved: 100.00% 				
2020	 Introduction to Household Water Treatment and Safe Storage by École Polytechnique Fédérale de Lausanne, from coursera 5 weeks of study, 4-6 hours/week, Grade Achieved: 95.54% 				
HONORS AND AWARDS					
2024 Jan - Now	Received scholarship from Sapienza University of Rome Sviluppo di un modello CFD multifasico di un reattore per la valorizzazione termochimica di correnti di				
2014-2018	scarto. 1 st Rank among B.Sc. Students of Chemical Engineering (summa cum laude) Petroleum University of Technology, Total Average: 17.65/20				
2014-2018	Received Scholarship Petroleum University of Technology				
2014	Top 1.0% In Nationwide Entrance Exam of Iranian Universities, Very Competitive with Nearly 220,000 Participants				
2014	1 st Rank Among High-School Students of Mathematics & Physics Group Total Average: 19.63/20				

WORK EXPERIENCE					
2018-2020	Quality Control and Laboratory Inspector National water and wastewater company of Iran				
	Regular water and wastewater sampling and laboratory analysis				
2017-2017	Summer Work Experience Iranian Offshore Oil Company (IOOC), Falat Ghare Company (Bahregan)				
2016-2016	Summer Work Experience Catalytic Cracking Unit, Isfahan Refinery, Isfahan, Iran.				
TEACHING ASSISTANCE					
2017-2018	Heat transfer II under Dr. A. Shariati's supervision Petroleum University of Technology				
2017-2018	Applied mathematics under Dr. A. Shariati's supervision Petroleum University of Technology				
PUBLICATIONS					
2021	Nanomaterial-Incorporated Polymer Composite for Industrial Effluent: from Synthesis to Application (Material Science and Material Engineering, Elsevier Chapter Book, 2021). Author: Y. Tamsilian, M. Shirazi, Gh. Masoudi Rad				
2021	Polymer nanocomposite characterization and applications (Material Science and Material Engineering, Elsevier Chapter Book). Author: M. Shirazi, Gh. Masoudi Rad, Y. Tamsilian				
ACADEMIC PROJECTS					
2023	Automation of the fluidized bed reactor cleaning system of a pharmaceutical company Conducted unsteady simulations of a reactor tank using ANSYS FLUENT and the DPM				
	model to evaluate the efficacy of a rotating water jet for automated cleaning. Demonstrated expertise in fluid dynamics and engineering analysis for process optimization.				
	Sapienza University of Rome				
2022	Numerical study of temporal evolution of the concentration field in a 2-d square cavity of side length L equipped with the velocity field deriving from the stream-function Using COMSOL Sapienza University of Rome				
2017	Applied Numerical Mathematics course project In this project, MATLAB software was used to model an unsteady reactor. The concentration of limiting components and the temperature was calculated along the reactor, using the finite element method.				

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Mother tongue	Persian (Farsi)					
Other languages	IELTS	OVERAL				
	Listening	Reading	Speaking	Writing		
English	8.5	8	7.5	6.5	7.5	