

Salma Sherbaz

Assistant Professor

School of Interdisciplinary Engineering & Sciences

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[lipi=urn%3Ali%3Apage%3Ad_flagship3_feed%3Bkk9TMJpITbayCnMkdLYBBw%3D%3D](https://www.linkedin.com/in/salma-sherbaz-a51ba24b/?lipi=urn%3Ali%3Apage%3Ad_flagship3_feed%3Bkk9TMJpITbayCnMkdLYBBw%3D%3D)



About

Dr. Salma Sherbaz is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Salma Sherbaz has a PhD in Fluid Mechanics. Dr. Salma Sherbaz has published 15 research articles & conference papers having a citation count of 118, carried out 6 projects and filed 0 intellectual property.

Qualifications

PhD in Fluid Mechanics Harbin Engineering University , China	2010 - 2014
MSc in Mathematics Quaid-i-Azam University , Pakistan	2007 - 2009
BSc in Double Maths Physics University of the Punjab , Pakistan	2005 - 2007
F.Sc in Pre-Engineering FBISE, Islamabad , Pakistan	2003 - 2005
Matric (SSC) in General Science Group BISE, Rawalpindi , Pakistan	1993 - 2003

Experience

Assistant Professor School of Interdisciplinary Engineering & Sciences	2022- Present
Assistant Professor Research Centre for Modelling & Simulation	2015 - 2022
Assistant Professor Research Centre for Modelling & Simulation	2014 - 2015

Awards

Key Note Speaker Spoke as a key note speaker in 17th International Conference on High Performance Marine Vessels, April 20-21, 2012, Shanghai, China.	2012
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Research Projects

National Projects

Equitable Urban Heat Island Mapping: A Citizen Science Approach for Climate Justice	2024
Funding Agency: NUST	
Amount: PKR 1,000,000.00	
Status: Approved_inprocess	
NUST Digital Twin through Advanced Modeling & Simulation	2024
Funding Agency: NUST	
Amount: PKR 50,000,000.00	
Status: Approved_inprocess	
Ducted Wind Turbines for Urban Areas	2024
Funding Agency: NUST	
Amount: PKR 1,000,000.00	
Status: Approved_inprocess	
City-level vulnerability to COVID pandemic: Spatio-temporal analysis of land use and land cover type effect on COVID incidences”	2022
Funding Agency: National Institute of Health (NIH), PAK	
Amount: PKR 1,980,000.00	
Status: Approved_inprocess	
Adoption of a performance evaluation technique for the development of a framework for the climatic-responsive urban design (CRUD)	2021
Funding Agency: PIDE RASTA	
Amount: PKR 1,035,000.00	
Status: Approved_inprocess	
Design and Optimization of Diffuser for Horizontal Axis Diffuser Augmented Tidal Current Turbine	2017
Funding Agency: HEC	
Amount: PKR 800,000.00	
Status: Completed	

International Projects

A novel computational methodology to design solar radiation absorbing glass <i>Faraan Fareed Uzma Habib Hafiz Ali Haider Sehole Salma Sherbaz Muhammad Bilal Khan Niazi Adnan Maqsood</i> <i>Energy and Buildings</i> , Volume:317, Article Number:114358 Impact Factor: 6.6 Quartile: 1 DOI: 10.1016/j.enbuild.2024.114358	2024
Large Eddy Simulation of the Flow Past a Soccer Ball <i>Sarmad Iftikhar Salma Sherbaz Hafiz Ali Seole Adnan Maqsood Zartasha Mustansar</i> <i>Mathematical Problems in Engineering</i> , Volume 2022, Article ID 3455235, 13 pages Impact Factor: 0 Citations: 2 DOI: 10.1155/2022/3455235	2022
Design and Optimization of a Diffuser for a Horizontal Axis Hydrokinetic Turbine using Computational Fluid Dynamics based Surrogate Modelling <i>Waleed Khalid Salma Sherbaz Adnan Maqsood Zamir Hussain</i> <i>Mechanika</i> , Volume 26(2), Pages 161-170 Impact Factor: 0.597 Quartile: 4 Citations: 7 DOI: https://doi.org/10.5755/j01.mech.26.2.23511	2020
Drag reduction of supersonic blunt bodies using opposing jet and nozzle geometric variations <i>AtiqBibi Adnan Maqsood Salma Sherbaz LaurentDala</i> <i>Aerospace Science and Technology</i> , Volume 69, Pages 244-256 Impact Factor: 2.228 Quartile: 1 Citations: 76 DOI: 10.1016/j.ast.2017.06.007	2017
Machinery Options for Green Ship <i>Salma Sherbaz Adnan Maqsood Jawad Khan</i> <i>Journal of Engineering Science and Technology Review</i> , Vol. 8(3), Pages 169-173 Impact Factor: 0	2015
Calculation of Effect of Viscous and Pressure Forces on Trimming Moments <i>Salma Sherbaz Wen Yang Duan</i> <i>Applied Mechanics and Materials</i> , Volume 590 Impact Factor: 0 Citations: 2 DOI: 10.4028/www.scientific.net/AMM.590.42	2014
Operational Options for Green Ships <i>Salma Sherbaz Wenyang Duan</i> <i>Journal of Marine Science and Application</i> , Volume 11, Issue 3, Pages 335–340 Impact Factor: 0 Citations: 20 DOI: https://doi.org/10.1007/s11804-012-1141-2	2012
Radar cross section prediction and reduction for naval ships <i>Jawad Khan Wenyang Duan Salma Sherbaz</i> <i>Journal of Marine Science and Application</i> , Volume 11, Issue 2, Pages 191–199 Impact Factor: 0 Citations: 9 DOI: https://doi.org/10.1007/s11804-012-1122-5	2012

- Challenges and Opportunities Associated with Technology-Driven Biomechanical Simulations** 2022
Zartasha Mustansar Haider Ali Lee Margetts Saad Ahmad Khan Salma Sherbaz Rehan Zafar Paracha
The 2022 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'22), res.country(233,)
Citations: N/A
DOI: <https://doi.org/10.48550/arXiv.2412.12209> Focus to learn more
- Adoption of a Performance Evaluation Technique for the Development of a Framework for the Climatic Responsive Urban Design (CRUD)** 2022
Salma Sherbaz Humera Mughal
1st RASTA Conference, res.country(282,)
Citations: N/A
DOI: Nil
- Numerical Investigation of Aerodynamic and Stability Behavior of Corrugated Airfoils at Low Reynolds Number** 2022
Huzafa Saeed Adnan Maqsood Salma Sherbaz Laurent Dala
AIAA SciTech 2022 Forum, res.country(233,)
Citations: N/A
DOI: <https://doi.org/10.2514/6.2022-0704>
- Time-Dependent Analysis and Classification of Deformation Mechanism in Head Impact Injury Using Image Based Finite Element Method (FEM)** 2021
Zartasha Mustansar Salma Sherbaz Haider Ali Zartasha Mustansar Saadia Talay Samra Zahoor
12th International Conference on Mechanical and Aerospace Engineering, res.country(88,)
Citations: 2
DOI: 10.1109/ICMAE52228.2021.9522452
- Geometrical Vitality of Human Head model to Calculate Intra Cranial Pressure for Pro-cognitive Computing** 2019
Zartasha Mustasar Maria Rathore Arslan Shaukat Salma Sherbaz Nabisha Farooq Faizan Nadeem
18th IEEE conference on cognitive computing and cognitive informatics, Milan res.country(109,)
Citations: N/A
DOI: https://www.researchgate.net/publication/334786255_IEEE_Proceedings_of_18th_International_Conference_on_Cognitive_Informatics_Cognitive_Computing_ICCICC'19
- Computational Modeling of Dynamic Stability Derivatives for Generic Airfoils** 2016
Muhammad Saleem Mumtaz Adnan Maqsood Salma Sherbaz
3rd International Conference on Mechatronics and Mechanical Engineering (ICMME 2016), res.country(48,)
Citations: N/A
DOI: <https://www.semanticscholar.org/paper/Computational-Modeling-of-Dynamic-Stability-for-Mumtaz-Maqsood/7c41bc1967712e8cdf95f542a754a8c2230bbc11>
- Propeller Efficiency Options for Green Ship** 2012
Salma Sherbaz Wenyang Duan
2012 9th International Bhurban Conference on Applied Sciences & Technology (IBCAST), res.country(177,)
Citations: N/A
DOI: 10.1109/IBCAST.2012.6177547