

Name	Dr. Salma Khan		
Personal	<i>HoD Department of Mathematics & Statistics, Women University Swabi, KP,</i> <i>Email Address: hod.mathematics@wus.edu.pk, salmakhan359@gmail.com</i>		
Experience	Designation	Duration	Institution
	HoD/Assistant Prof	2025	Women University Swabi, KPK, Pakistan
	Lecturer	2024	Women University Mardan, KPK, Pakistan
	Research Associate	2023- 2024	Hazara University Mansehra, KPK, Pakistan
	Lecturer	2021-2022	Hazara University Mansehra, KPK, Pakistan
	Lecturer	2019-2020	Women University Mardan, KPK, Pakistan
Honors and Awards	- Received Naway Sahar Laptop under Chief Minister Laptop Scheme A tribute to youth talent. - Prime Minister Scholarships: For M.Phil Hazara University, Mansehra Pakistan.		
Memberships			
Graduate Students Postdocs Undergraduate Students Honors Students	• NA		
Service Activity	<i>Teaching, Research</i>		
Brief Statement of Research Interest	- Theoretical advancement in fuzzy sets. - Applications of fuzzy logic in decision-making - Applications of fuzzy sets - Algorithms development of fuzzy systems - q-Rung orthopair fuzzy hypersoft sets - Type-2 fuzzy sets and hypersoft sets - Fuzzy AI		
Publications	Khan S, Abujabal HA, Rahim M, Almutairi A, Alburaikan A, Khalifa HA. Multi attribute group decision-making based on quasirung orthopair fuzzy Frank aggregation operators for optimal vehicle selection. <i>Scientific Reports</i>. 2025 Aug 7;15(1):28868. Khan S, Syam MI, Abujabal HA, Rahim M, Alburaikan A, Khalifa HA. A strategic decision-making framework for evaluating barriers to green supply chain management using fractional fuzzy similarity measures. <i>Scientific Reports</i>. 2025 Aug 8;15(1):29089. Khan S, Gulistan M, Wahab HA. Development of the structure of q-rung orthopair fuzzy hypersoft set with basic operations. <i>Punjab University Journal of Mathematics</i>. 2022 Feb 24;53(12). Khan S, Gulistan M, Kausar N, Kousar S, Pamucar D, Addis GM. Analysis of cryptocurrency market by using q-rung orthopair fuzzy hypersoft set algorithm based on aggregation operators. Complexity. 2022 Jul 13;2022. Khan S, Gulistan M, Kausar N, Pamucar D, Ozbilge E, El-Kanj N. q-Rung orthopair fuzzy hypersoft ordered aggregation operators and their application towards green supplier. Frontiers in Environmental Science. 2023 Feb 1; 10:2738.		

6. **Khan S**, Gulistan M, Kausar N, Pamucar D, Hong TP, Wahab HA. Aggregation Operators for Decision Making Based on q-Rung Orthopair Fuzzy Hypersoft Sets: An Application in Real Estate Project. **CMES-Computer Modeling in Engineering and Sciences**. 2023 Jan 1;136(3).
7. **Khan S**, Gulistan M, Kausar N, Kadry S, Kim J. A Novel Method for Determining Tourism Carrying Capacity in a Decision-Making Context Using q-Rung Orthopair Fuzzy Hypersoft Environment. **CMES-Computer Modeling in Engineering and Sciences**. 2024 Feb 1;138(2).
8. Kang L, **Khan S**, Rahim M, Shah K, Abdeljawad T. Development p, q, rSpherical Fuzzy Einstein Aggregation Operators: Application in Decision Making in Logo Design. **IEEE Access**. 2024 Apr 29.
9. Al-Sabri EH, Rahim M, Amin F, Ismail R, **Khan S**, Alanzi AM, Khalifa HA. Multi-criteria decision-making based on Pythagorean cubic fuzzy Einstein aggregation operators for investment management. **AIMS Mathematics**. 2023;8(7):16961-88.
10. Rahim M, Garg H, **Khan S**, Alqahtani H, Khalifa HA. Group decision-making algorithm with sine trigonometric p, q-quasirung orthopair aggregation operators and their applications. **Alexandria Engineering Journal**. 2023 Sep 1; 78:530-42.
11. Mani G, Gnanaprakasam AJ, Kausar N, Munir M, **Khan S**, Ozbilge E. Solving an integral equation via intuitionistic fuzzy bipolar metric spaces. *Decision Making: Applications in Management and Engineering*. 2023 Jul 8;6(2):53656.
12. Rahim M, Eldin EM, **Khan S**, Ghamry NA, Alanzi AM, Khalifa HA. Multicriteria group decision-making based on dombi aggregation operators under p, q-quasirung orthopair fuzzy sets. **Journal of Intelligent and Fuzzy Systems**. (Preprint):1-22.
13. Madasi JD, **Khan S**, Kausar N, Pamucar D, Gulistan M, Sorowen B. N-Cubic q-rung orthopair fuzzy sets: Analysis of the use of mobile app in the education sector. **Computational Intelligence and Neuroscience**. 2022 Sep 30;2022.
14. Al Shumrani MA, Gulistan M, **Khan S**. The neutro-stability analysis of neutrosophic cubic sets with application in decision making problems. **Journal of Mathematics**. 2020 Nov 29; 2020:1-6.
15. Gulistan M, Wahab HA, Smarandache F, **Khan S**, Shah SI. Some linguistic neutrosophic cubic mean operators and entropy with applications in a corporation to choose an area supervisor. **Symmetry**. 2018 Sep 22;10(10):428.
16. Madasi JD, **Khan S**, Kausar N, Pamucar D, Addis GM, Gulistan M. A Novel Decision-Making Process in the Environment of Generalized Version of Fuzzy Sets for the Selection of Energy Source. **Advances in Mathematical Physics**. 2022 Aug 23;2022.
17. Rashid S, Gulistan M, Jun YB, **Khan S**, Kadry S. N-Cubic sets, and aggregation operators. **Journal of Intelligent and Fuzzy Systems**. 2019 Jan 1;37(4):5009-23.
18. Nawaz S, Gulistan M, **Khan S**. Weak LA-hypergroups; neutrosophy, enumeration and redox reaction. **Neutrosophic Sets and Systems**; 2020 Oct 1.
19. Gulistan M, Rehman I, Shahzad M, Nawaz S, **Khan S**. Generalized Neutrosophic Semirings. **Neutrosophic Sets and Systems**. 2021;47(1):34.
20. Gulistan M, Mohammad M, Karaaslan F, Kadry S, **Khan S**, Wahab HA. Neutrosophic cubic Heronian mean operators with applications in multiple attribute group decision-making using cosine similarity functions. **International Journal of Distributed Sensor Networks**. 2019 Sep;15(9):1550147719877613.

	21. Palanikumar M, Kausar N, Pamucar D, Khan S, Shah MA. Complex Pythagorean Normal Interval-Valued Fuzzy Aggregation Operators for Solving Medical Diagnosis Problem. International Journal of Computational Intelligence Systems. 2024 Dec;17(1):1-28. 22. Batool N, Hussain S, Kausar N, Munir M, Li RY, Khan S. Intuitionistic multi fuzzy ideals of near rings. Decision Making: Applications in Management and Engineering. 2023 Apr 8;6(1):564-82. 23. Ali S, Ullah I, Khan S, Khan H, Alkhawar HM, Alzabut J. Operational Funds Allocation through Stock Investment Based on CODAS Method and q-ROPFS Aggregation Operators. MethodsX. 2025 Sep 27:103640. 24. Khan S, Syam MI, Abujabal HA, Rahim M, Alburaikan A, Khalifa HA. A strategic decision-making framework for evaluating barriers to green supply chain management using fractional fuzzy similarity measures. Scientific Reports. 2025 Aug 8;15(1):29089. 25. Khan S, Abujabal HA, Rahim M, Almutairi A, Alburaikan A, Khalifa HA. Multi attribute group decision-making based on quasirung orthopair fuzzy Frank aggregation operators for optimal vehicle selection. Scientific Reports. 2025 Aug 7;15(1):28868.
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Research Grants and Contracts.	• NRPU Project: Multi-sided platform ecosystem
Other Research or Creative Accomplishments	• A two-day workshop on Pure and Applied Mathematics, 22-23 April 2024, UAF Faisalabad.
	• 19th CONFERENCE ON RECENT ADVANCES IN MATHEMATICAL METHODS, MODELS, & APPLICATIONS MARCH 2–3, 2024, Lahore school of economics, Department of mathematics and statistical sciences • International Conference on Recent Trends in Applied Mathematics- 2023, UET Lahore.
Selected Professional Presentations.	NA