Shakir Showkat Sofi

PhD researcher, STADIUS, KU Leuven.

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Doctoral researcher in Electrical Engineering (ESAT), KU Leuven, Belgium, supervised by Prof. Lieven De Lathauwer. Focused on tensor decompositions for data compression, completion, and their applications in AI, quantum tomography, and spatiotemporal forecasting.

🎓 EDUCATION

February, 2023 Present	**KU Leuven, ESAT, STADIUS, Kulak Kortrijk, BE** **Ph.D. Engineering Science (Electrical Engineering)** Advisor : Prof. Lieven De Lathauwer (ESAT, STADIUS and Group Science, E & T) › **Topic :** "Numerical algorithms for tensor decompositions and applications." `Tensor decompositions, Data Compression and completion, Quantum state tomography.`
September, 2020 June, 2022	**Skolkovo Institute of Science and Technology, Moscow, RU** **M.Sc. Data Science GPA :** 4.7/5 Advisor : Prof. Ivan Oseledets (Skoltech & RAS) › **Thesis :** "Spatiotemporal forecasting with application to the weather forecast" `Matrix and tensor completion, Spatiotemporal forecasting, Machine learning`
August, 2015 August, 2019	**Islamic University Of Science And Technology, Srinagar, J&K, IN** **B.Tech. Electric Engineering GPA :** 9.18/10 Advisor : Dr. Shahkar A. Nahvi (IUST & IIT-Delhi) › **Thesis :** "Energy-Based Modeling of Dc-Dc Power Converters" `Dc-Dc power converters, Euler-Lagrangian modelling, Simulation`

💼 EXPERIENCE

Summer 2021	**Skolkovo Institute of Science and Technology and TENSOR FIELD, Moscow, RU** **Research Internship** › Data-driven weather forecasting › Multivariate time series forecasting for long range Geo-spatial grid points.
Summer 2021	**Global Quantum Network, QWorld, Virtual** **Quantum Computing Summer School** › Quantum Computing and Programming : Qiskit, QFT and Shor's Algorithm, etc.
Summer 2018	**Power Grid Corporation Of India Limited, J&K, India** **Field internship** › Transmission and distribution of electrical energy. › Hydro power generation : Turbo-generators, Turbine, Water-dam, Steam generators, etc. › Control room, Power station management, Transformer repairing.

📖 PUBLICATIONS

For the full list of publications, please check my Google Scholar page.

☰ SKILLS

</> **Programming and Writing :**	C, Python, Matlab, V.B, HTML, SQL, LaTeX, LyX, Ms Office.
🌐 **Languages :**	English, Urdu, Kashmiri.

🎓 MEMBERSHIPS

› Society for Industrial and Applied Mathematics (SIAM)
› European Association for Signal Processing (EURASIP)

🎓 Teaching and Mentoring

T.A | KU Leuven, Campus Kulak Kortrijk, Belgium
> Applied AI : Academic Perspectives.
> System and Control Theory.

Prepared and conducted theoretical and coding exercise sessions, assessments, etc.

Other | Srinagar, Jammu and Kashmir, India
> Course Instructor : Python programming (Foundations & Applications) [KIMS, Quantum AI Lab]

🎓 Certifications and Scholarships

2015-2019	Merit-Cum Means Scholarship during Undergrad. by MHRD, Govt. of India.
2020	Graduate fellowship at Skolkovo Institute of Science and Technology, Moscow, RU
2023	Doctoral scholarships at KU Leuven, Belgium.

📖 References

Available upon request.