Vivek Balasaheb Sabale

sabalevivek53@gmail.com sabale.1@iitj.ac.in
https://www.linkedin.com/in/vivek-sabale/
https://viveksabale1998.github.io/index.html

Education

2021 – 202x **Ph.D. Quantum Information and Computation, Indian Institute of Technology, Jodhpur**.
Thesis title: *Dynamics of multiqubit nonlocal correlations*

2019 – 2021 **M.Sc. Chemistry, Indian Institute of Technology, Madras**.
Thesis title: *Entangled quantum states and correlations in quantum mechanics* .

2016 – 2019 **B.Sc. Chemistry, Fergusson College, Pune**.

Research Publications

Journal Articles

1. D. Sharma, V. B. Sabale, P. Singh, and A. Kumar, "Harnessing quantum support vector machines for cross-domain classification of quantum states," *Quantum Machine Intelligence*, vol. 7, no. 1, p. 49, 2025. DOI: https://doi.org/10.1007/s42484-025-00274-4.
2. A. Abu-Nada, S. Banerjee, and V. B. Sabale, "Exploring the non-markovian dynamics in depolarizing maps," *Phys. Rev. A*, vol. 110, p. 052 209, 5 Nov. 2024. DOI: 10.1103/PhysRevA.110.052209.
3. V. B. Sabale, N. R. Dash, A. Kumar, and S. Banerjee, "Facets of correlated non-markovian channels," *Annalen der Physik*, vol. 536, no. 10, p. 2 400 151, 2024. DOI: https://doi.org/10.1002/andp.202400151.
4. V. B. Sabale, A. Kumar, and S. Banerjee, "Toward realization of universal quantum teleportation using weak measurements," *Annalen der Physik*, vol. 536, p. 2 300 392, 4 Apr. 2024, ISSN: 1521-3889. DOI: 10.1002/ANDP.202300392.

Skills

Languages Strong reading, writing and speaking competencies in English, Hindi and Marathi.
Coding MATLAB, Mathematica, Python, Qiskit, Julia
Misc. Academic research, teaching, training, consultation, publishing.

Miscellaneous Experience

Awards and Achievements

2024 **International Travel Grant**, received financial assistance from Anusandhan National Research Foundation (ANRF) for participating in "Quantum Techniques in Machine Learning, University of Melbourne (25 November 2024 to 29 November 2024)".

Workshop with QIndia, teaching quantum computing at workshop organised in IIT Dharwad.

2018 **Mahatma Jyotirav Phule Gunvant Vidyarthi Scholarship**, Pune University.

Miscellaneous Experience (continued)

Certification

2021 **Certificate**, for completing IBM Quantum Challenge Awarded by IBM.

2019 **Diploma Certificate**, Project Orientated Chemistry Education (POCE) program of Jawahar Nehru Centre for Advanced Scientific Research, Bangalore.

References

Prof Atul Kumar
Professor
IIT Jodhpur,
https://atulk4.wixsite.com/atulk

Prof Subhashish Banerjee
Professor
IIT Jodhpur,
http://home.iitj.ac.in/~subhashish/