

# Sourav Majumder

[sourav@iisc.ac.in](mailto:sourav@iisc.ac.in) • Indian Institute of Science, Bengaluru, India.

RESEARCH INTERESTS	Quantum hybrid devices, Superconducting qubits
EDUCATION	<b>Indian Institute of Science (IISc), Bengaluru</b> Graduate Student in Physics 2017 - <i>Present</i>
	<b>Indian Institute of Science (IISc), Bengaluru</b> M.S. Physics 2015 - 2017
	<b>Ramakrishna Mission Residential College (RKMRC), Narendrapur</b> B.Sc. (Hons.) Physics 2012 - 2015
EMPLOYMENT	<b>Graduate Student</b> <b>Indian Institute of Science (IISc), Bengaluru</b> <i>Mentored by Dr. Vibhor Singh</i> Aug 2017 - <i>Present</i> <i>Topic - Hybrid quantum devices</i>
	<b>Summer Project Intern</b> <b>Indian Institute of Science (IISc), Bengaluru</b> <i>Mentored by Dr. Vibhor Singh</i> May 2017 - July 2017 <i>Topic - Transmon in 3D Cavity</i>
PUBLICATIONS	2. <b>Large flux-mediated coupling in hybrid electromechanical system with a transmon qubit</b> Tanmoy Bera, <b>Sourav Majumder</b> , Sudhir Kumar Sahu, and Vibhor Singh <i>Communications Physics</i> 4, 12 (2021) - Published 19 January 2021, <a href="#">arXiv:2001.05700</a> . 1. <b>Optomechanical Platform with a Three-dimensional Waveguide Cavity</b> Bindu Gunupudi, Soumya Ranjan Das, Rohit Navarathna, Sudhir Kumar Sahu, <b>Sourav Majumder</b> , and Vibhor Singh <i>Phys. Rev. Applied</i> 11, 024067 - Published 26 February 2019, <a href="#">arXiv:1902.06215</a> .
CONFERENCES, AND OTHER MEETINGS	• Talk titled <i>Relaxation of a transmon qubit from unconfined states and resurgence of coherence</i> at <b>APS March Meeting 2021</b> , American Physical Society, March 2021. • Participant, <b>International Workshop on Electron and Ions in/on Helium (EIH 2020)</b> , IISc, Bengaluru, India, January 2020. • Poster titled <i>Losses and dynamic range of a strongly driven circuit-QED system</i> at <b>ISNTT-2019</b> , NTT Basic Research Laboratory, Atsugi, Japan, November 2019. • Poster titled <i>Towards the development of a hybrid system for synthesizing single phonon state</i> at <b>In-house Symposium</b> , IISc, Bengaluru, India, November 2018. • Poster titled <i>Fabrication and characterization of a superconducting 3D-transmon qubit</i> at <b>In-house Symposium</b> , IISc, Bengaluru, India, November 2017.
HACKATHONS	• Participant, <b>The Qiskit Challenge India</b> , Qiskit, September 2020
TECHNICAL SKILLS	<b>Programming Languages</b> - Python, C <b>Softwares</b> - MATLAB, Mathematica <b>Tools/Frameworks</b> - L <sup>A</sup> T <sub>E</sub> X, Git
SCORES AND AWARDS	• Secured all-India rank 4 in the <b>Joint Entrance Screening Test (JEST)</b> , 2015 India.