

Sourav Majumder

sourav@iisc.ac.in • Indian Institute of Science, Bengaluru, India.

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

SCORES AND
AWARDS

- Scored 960/990 on the [Subject GRE in Physics](#), October 2017
- Secured all-India rank 21 in the [Joint Entrance Screening Test \(JEST\)](#), 2018 for admission into Physics PhD programmes in India
- Awarded the [ICTS S.N. Bhatt Memorial Excellence Fellowship](#), 2018
- Selected for the [Summer Research Fellowship](#) of the Indian Academy of Sciences in 2016
- Receptient of the [INSPIRE-DST Scholarship for Higher Education](#) for the period 2013 to 2018

REFERENCES

- Prof. Parameswaran Ajith, ICTS – ajith@icts.res.in
- Dr. Shasvath Kapadia, ICTS – shasvath.kapadia@icts.res.in
- Dr. Sumit Kumar, AEI Hannover – sumit.kumar@aei.mpg.de
- Prof. Bala Iyer, ICTS – bala.iyer@icts.res.in