

# Sourav Majumder

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RESERACH  
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 *Dr. Vibhor Singh*      Aug 2017 - Present  
Topic - Hybrid quantum devices

Summer Project Intern  
**Indian Institute of Science (IISc), Bengaluru**  
Mentored by *Dr. Vibhor Singh*      May 2017 - July 2017  
Topic - Transmon in 3D Cavity

PUBLICATIONS      2. Large flux-mediated coupling in hybrid electromechanical system with a transmon qubit  
Tanmoy Bera, Sourav Majumder, Sudhir Kumar Sahu, and Vibhor Singh  
*Communications Physics* 4, 12 (2021) - Published 19 January 2021, [arXiv:2001.05700](#).  
1. Optomechanical Platform with a Three-dimensional Waveguide Cavity  
Bindu Gunupudi, Soumya Ranjan Das, Rohit Navarathna, Sudhir Kumar Sahu, Sourav Majumder, and Vibhor Singh  
*Phys. Rev. Applied* 11, 024067 - Published 26 February 2019, [arXiv:1902.06215](#).

CONFERENCES,  
AND OTHER  
MEETINGS      • Talk titled *Relaxation of a transmon qubit from unconfined states and resurgence of coherence* 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 *Losses and dynamic range of a strongly driven circuit-QED system* at **ISNTT-2019**, NTT Basic Research Laboratory, Atsugi, Japan, November 2019.  
• Poster titled *Towards the development of a hybrid system for synthesizing single phonon state* at **In-house Symposium**, IISc, Bengaluru, India, November 2018.  
• Poster titled *Fabrication and characterization of a superconducting 3D-transmon qubit* at **In-house Symposium**, IISc, Bengaluru, India, November 2017.

HACKATHONS      • Participant, **The Qiskit Challenge India**, Qiskit, September 2020

TECHNICAL  
SKILLS      **Programming Languages** - Python, C  
**Softwares** - MATLAB, Mathematica  
**Tools/Frameworks** - L<sup>A</sup>T<sub>E</sub>X, Git

SCORES AND  
AWARDS      • Secured all-India rank 4 in the **Joint Entrance Screening Test (JEST)**, 2015 India.