

# Sourav Majumder

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RESERACH  
INTERESTS      Quantum hybrid devices, Superconducting qubits

EDUCATION	<b>Indian Institute of Science (IISc), Bengaluru</b> Graduate Student in Physics	2017 - Present
	<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> Mentored by <i>Dr. Vibhor Singh</i> Topic - <i>Hybrid quantum devices</i>	Aug 2017 - Present
	<b>Summer Project Intern</b> <b>Indian Institute of Science (IISc), Bengaluru</b> Mentored by <i>Dr. Vibhor Singh</i> Topic - <i>Transmon in 3D Cavity</i>	May 2017 - July 2017
PUBLICATIONS	<ol style="list-style-type: none"><li>2. <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>.</li><li>1. <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>.</li></ol>	
CONFERENCES, AND OTHER MEETINGS	<ul style="list-style-type: none"><li>• 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.</li><li>• Participant, <b>International Workshop on Electron and Ions in/on Helium (EIH 2020)</b>, IISc, Bengaluru, India, January 2020.</li><li>• 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.</li><li>• 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.</li><li>• Poster titled <i>Fabrication and characterization of a superconducting 3D-transmon qubit</i> at <b>In-house Symposium</b>, IISc, Bengaluru, India, November 2017.</li></ul>	
HACKATHONS	<ul style="list-style-type: none"><li>• Participant, <b>The Qiskit Challenge India</b>, Qiskit, September 2018</li></ul>	
TECHNICAL SKILLS	<b>Programming Languages</b> - Python, C, C++, Shell Script <b>Softwares</b> - MATLAB, Mathematica <b>Tools/Frameworks</b> - L <sup>A</sup> T <sub>E</sub> 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
- Recipient of the [INSPIRE-DST Scholarship for Higher Education](#) for the period 2013 to 2018

**REFERENCES**

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