

Sriram Gopalakrishnan

CONTACT INFORMATION	sgopalakrishnan@pitp.ca Perimeter Institute 31 Caroline St N, Waterloo, ON N2L 2Y5
INTERESTS	Quantum Information, Theoretical Physics, Applied Mathematics, Device Physics
EDUCATION	University of Waterloo (Sep 2020 - Aug 2025) Physics Ph.D. (Quantum Information) Advisor: Dr. B. Yoshida Affiliations: Perimeter Institute, Institute for Quantum Computing IIT Madras (Aug 2016 - Jun 2020) B.Tech. in Engineering Physics Advisor: Dr. U. Khankhoje Project: Vector 3D FEM for electromagnetic scattering
PAST EMPLOYMENT	Tata Institute of Fundamental Research (May 2019 - Jun 2019) Research Intern (VSRP fellowship) Advisor: Dr. R. Vijay Awarded <i>best project</i> in condensed matter physics Homi Bhabha Centre for Science Education (Dec 2017 - Dec 2018) Research Intern (NIUS fellowship) Advisor: Dr. P. Pathak
PAPERS	Ring-resonator-based coupling architecture for enhanced connectivity in a superconducting multi-qubit network S. Hazra, A. Bhattacharjee, M. Chand, K.V. Salunkhe, SG , M.P. Patankar, R. Vijay <i>Physical Review Applied</i> (2021) [doi] Coverage: <i>Nature</i> "In-brief" [doi] Landau quantization of a circular Quantum Dot using the BenDaniel-Duke boundary condition SG , S. Biswas, S. Handa <i>Superlattices and Microstructures</i> (2020) [doi]
SELECTED COURSEWORK	Waterloo: Theory of Quantum Information, Quantum Algorithms IIT Madras: Quantum Info, Convex Optimization, Dynamical Systems, Stochastic Processes
TEACHING EXPERIENCE	Assisting teaching large undergraduate physics courses at Waterloo. Duties include tutorials, lab presentations, office hours, grading, proctoring, and problem setting - PHYS359: Statistical Mechanics (3rd year undergrad) - ECE106: Electricity and Magnetism (1st year undergrad) - PHYS111L: Mechanics Lab (1st year undergrad)