

# Sriram Gopalakrishnan

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CONTACT INFO      [sriramgk98@gmail.com](mailto:sriramgk98@gmail.com)

INTERESTS              Scientific Computing, Applied Mathematics, Device Physics, Quantum Information

EDUCATION            **University of Waterloo** 2020-23  
MSc. in Physics [Dr. B. Yoshida](#)  
Affiliations: Perimeter Institute, Institute for Quantum Computing

**IIT Madras** 2016-20  
B.Tech. in Engineering Physics [Dr. U. Khankhoje](#)  
Project: Vector 3D FEM for electromagnetic scattering

PAST  
EMPLOYMENT        **Tata Institute of Fundamental Research** 2019  
Research Intern (VSRP fellowship) [Dr. R. Vijay](#)  
Awarded [best project](#) in condensed matter physics & material science

**Homi Bhabha Centre for Science Education** 2017-18  
Research Intern (NIUS fellowship) [Dr. P. Pathak](#)

PAPERS                **Ring-resonator-based coupling architecture for enhanced connectivity in a superconducting multi-qubit network** [\[doi\]](#)  
S. Hazra, A. Bhattacharjee, M. Chand, K.V. Salunkhe, **SG**, M.P. Patankar, R. Vijay  
*Physical Review Applied* (2021)  
Coverage: [Nature in-brief](#)

**Landau quantization of a circular Quantum Dot using the BenDaniel-Duke boundary condition** [\[doi\]](#)  
**SG**, S. Biswas, S. Handa  
*Superlattices and Microstructures* (2020)

SELECTED  
COURSEWORK        **Waterloo:** Methods in Computational Physics, Quantum Algorithms, Theory of QI  
**IIT Madras:** Stochastic Processes, Dynamical Systems, Convex Optimization

TEACHING  
EXPERIENCE        - Assisted teaching large undergraduate physics classes at UWaterloo. Duties included tutorials, lab presentations, office hours, grading, proctoring, and problem setting  
ECE 106            : Electricity and Magnetism  
PHYS 111L        : Mechanics Lab  
PHYS 175         : Introduction to the Universe  
PHYS 359         : Statistical Mechanics  
  
- [Dr. R. Epp](#): "Thanks for grading the midterm test so carefully and conscientiously, and also thank you for the huge amount of work keeping up with the physepp emails!"  
- [Dr. A. Jamison](#): "It is always nice to see them learn something new from you"  
- Example problems set: [ECE 106](#)  
- Lab feedback: [PHYS 111L](#)