## Sriram Gopalakrishnan oin

CONTACT INFO sriramgk98@gmail.com

Interests Scientific Computing, Applied Math, Device Physics, Quantum Information

EDUCATION University of Waterloo

2020-23

MSc. in Physics

Dr. B. Yoshida

Affiliation: 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 Tata Institute of Fundamental Research

2019

EMPLOYMENT 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

Research

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"
- lab feedback: PHYS 111L, example problem set: ECE 106

OTHER PROJECTS

Convex Optimization: solved three practically interesting optimization tasks in CVX

- recovering sparse signal from noisy measurement [via second-order-conic-programming]
- revenue maximization [via linear-programming]
- low-rank matrix completion [via semidefinite-programming]