

INDRANIL GHOSH

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EDUCATION

Ph.D., Applied Mathematics Massey University	2021-Present Palmerston North, Manawatu-Wanganui 4442
M.Sc., Physics Jadavpur University	2018-2020 Kolkata-700032
B.Sc., Physics Jadavpur University	2015-2018 Kolkata-700032

PEER-REVIEWED PUBLICATIONS (WORKS DURING M.SC.)

Ghosh, I. Quantum Game Theory: A comprehensive study. Resonance – Journal of Science Education, 0973-712X (Electronic ISSN).

Babu, S., *Ghosh, I.*, Manoj, B. S., **Effort: A New Metric for Roadside Unit Placement in 5G Enabled Vehicular Networks.** *5GWF'2020 Proceedings.* <https://ieeexplore.ieee.org/document/9221228>

SOFTWARES

Ghosh, I. QGameTheory: Quantum Game Theory Simulator (v0.1.2). *CRAN Repository, 2020.* <https://cran.r-project.org/web/packages/QGameTheory/index.html>

RESEARCH AND WORK EXPERIENCE

Sirpi Products and Services Pvt. Ltd., Bangalore, India <i>Research Lead and SHEAR Project Lead (Remote)</i>	August 2020-December 2020.
Indian Institute of Space Science and Technology, Kerala, India. <i>Computer Science Intern</i>	May 2019-June 2019.

CONFERENCE PRESENTATIONS

Introduction to Soccer Pass Network Analysis with Python PyOhio, 2021	July 2021 <i>Thunder Talk</i>
Introducing a blog: Introductory Football Data Analysis EuroPython Conference, 2021	July 2021 <i>Lightning Talk</i>
Using Python to start learning Unconstrained Numerical Optimization Algorithms Pycon Colombia, 2021	June 2021 <i>Talk</i>
QGameTheory: An R package for teaching quantum computing and quantum game theory to students International Series of Online Research Software Events (SORSE)	April 2021 <i>Poster Presentation + Talk</i>

QGameTheory: A Quantum Game Theory Simulator written in R for teaching quantum computing and game theory to starting programmers and undergraduate students March 2021

APS March Meeting 2021

Poster Presentation

Develop and Document Your First R Package

December 2020

Sirpi Products and Services Pvt. Ltd.

Talk

Learn Lambda Calculus with Python

December 2020

Pycode Conference 2020

Talk

Teaching quantum computing and game theory with QGameTheory package September 2020

Why R? 2020 Conference

Talk

Introducing Lambda Calculus with Python

September 2020

Pycon Australia

Talk

Quantum Game Theory with Julia: A computational analysis

July 2020

JuliaCon

Poster presentation

Build Your Own Quantum Simulator With R

June 2020

The European R Users Meeting

Lightning talk

A Computational Study of Sequential Deposition: A Dynamic Monte Carlo Process in Statistical Physics

September 2019

Flatlands and beyond (2019) – A meet on 2D materials

SNBNCBS, Kolkata, India

A Python implementation of Quantum Evolutionarily Stable Strategy Game, an interdisciplinary study of Quantum Computation and Game Theory in population biology

February 2019

SLAS Conference

Washington D. C, USA

Analysis of Quantum Game Theoretic Models with a Python Simulator

December 2018

SciPy India

IIT-B, Mumbai

Analysis of Chaos Game Simulator in Pygame

October 2018

International Conference on Complex Dynamical Networks, 2018

ISI, Kolkata

Computation of Analytic Structure Factor for Macromolecules

June 2018

Research Topic of Statistical Physics to young Physicists, 2018

SNBNCBS, Kolkata, India

SKILLS

Softwares

Expert: R, Python, Fortran, git, \LaTeX , HTML, Markdown

Social

Twitter: @indraghosh314,

Github: <https://github.com/indrag49>,

LinkedIn: <https://www.linkedin.com/in/indranil-ghosh-b999b2135/>