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Delhi

6376607475



Research Assistant

Nadeem Khan

Solution-oriented, interested in AMO physics, computational physics, Simulation & Quantum Computing

EXPERIENCE

Research Assistant

Centre For Quantum Science & Technology ,IIIT Hyderabad

04/2022 - Present

Hyderabad

Achievements/Tasks

- Assisted the research on Quantum Isometric Evolution of quantum states. Analytically considered the cases of separability spectrum problem and evolution of states under Global Isometry.
- Deployed **DNN/CNN** model to different quantum states.

Contact: Indranil Chakrabarty

Data Science Intern Sparks foundation

02/2022 - 04/2022

delhi - remote

Achievements/Tasks

Deep learning modules on different optical states

Contact: https://www.thesparksfoundationsingapore.org/

MASTER THESIS

Physics Department, Indian Institute Of Technology Delhi

12/2020 - 11/2021

delhi

SUPERVISER: Dr Bodhaditya Santra & Dr Rashid Ahmed Achievements/Tasks

- Demonstrated faster and more efficient Optical Tweezer atom arrangement using dynamic Hologram generation algorithm for neutral atoms.
- primarily increased the efficiency of the algorithm to 98% trap the cold atom qubits in the target sites of the desired pattern by modification.
- Accomplished different mask pattern on output plane through spatial light modulator and explored fourier holography and deployed models of fourier optics.

EDUCATION

Master of science [physics]

Jamia Milia Islamia

08/2019 - 07/2021 delhi
SPECIALISATION: LASER SPECTROSCOPY & SCIENTIFIC PROGRAMMING

- 8.23 CGPA

Bachelor of Science [Major-physics &

BHUPAL NOBLES UNIVERSITY

minor-computer science]

07/2016 - 07/2019 STATISTICAL PHYSICS , C++, DSA, , PYTHON

 UNDERGRADUATE PROJECT; Optimization of Damped Circuit UDAIPUR

SKILLS

STATISTICAL MODELLING

DATA ANALYSIS

ΜΔΤΙ ΔΒ

MAPLESOFT

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MYSQL

PYTHON

QUANTITATIVE ANALYSIS

ACHIEVEMENTS & PROJECTS

WINNER OF QUANTUM COMPUTING HACKATHON 2022 BY QUANTUM COALITION

- Our Team QUANTUMFEED was able to extend solutions to include error estimation and multi contributor scenarious on Quantum Teleportation Challenge by QBRAID and Amazon bracket, IBM
- Envited to attain QCHACK 23 by NYU, Abu dhabi

QUANTUM COMPUTING DIPLOMA

- QBRONZE79 BY WARSAW QUANTUM (QWORLD)
- Completing daily assignment on quantumm algorithms .

HARDWARE-AWARE SCIENTIFIC COMPUTING

- SUMMER SCHOOL BY IISc & HEIDELBERG UNIVERSITY, GERMANY
- Asynchronous computing method for solving PDEs at extreme level , Bayesian Data Assimilation and Inverse problems.
- Nonlinear eigenvalue on heterogeneous parallel architectures.

NANOMATERIALS LAB TRAINING

- WORKSHOP BY Prof KHALID (Sunway University, Malaysia)
- Fabrication techniques of graphene nanostructures ;Liquid-phase exfoliation, chemical -vapour decomposition , Pusled laser decomposition (PLD)

CERTIFICATES & COURSES

QUANTUM ALGORITHMS BY QKRISHI (05/2022 - 07/2022)

QUANTUM COMPUTING FOR FINANCE
BY IIIT KOTTAYAM

Qualified exams; IIT -JAM, CUCET, JMIET (01/2019 - 12/2019)

PYTHON PROGRAMMING

BY PROJECT INSIGHT

MACHINE LEARNING

BY UDEMY

RESEARCH TOOLS

PYTHON



ZEMAX I ATFX







