



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE _____6322_____

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di ___Fisica Aldo Pontremoli

Scientist- in - charge: _____ Prof. Marco Giovanni Genoni _____-

[Chayan Purkait]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Purkait
Name	Chayan

PRESENT OCCUPATION

Appointment	Structure
PhD student	

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree			
Specialization			
PhD	Physics (Quantum Thermodynamics and Quantum Information)	Indian Institute of Technology (IIT) Ropar	To be completed in February 2024
Master	Physics (Elective papers - Quantum Optics, Nonlinear Optics and Laser Physics)	Visva - Bharati, Santiniketan	2017
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
English	Advanced Level

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2017, 2018	GATE exam (for admission to PhD or other kind of jobs in India) in Physics qualified
2018, 2019	JEST exam (for admission to PhD in research institutes in India) in Physics qualified
2017	WB SET exam (to become an assistant professor in West Bengal, India) in Physics qualified
2015-2017	“Merit Cum Means Scholarship” (provided by the West Bengal government) obtained during M.Sc.

TRAINING OR RESEARCH ACTIVITY

description of activity

PROJECT ACTIVITY

Year	Project
2017	An introductory level project on “Optical Phase Conjugation” in Nonlinear Optics for the partial fulfilment of the M.Sc. degree

CONGRESSES AND SEMINARS

Date	Title	Place
March 4, 2023	A colloquium “Physics Day”, presented a poster on my work	Department of Physics, IIT Ropar, Punjab, India
November 10-13, 2022	“XLV Symposium of the Optical Society of India Optics, COPaQ 2022, Conference on Optics, Photonics & Quantum Optics”, presented a poster on my work	IIT Roorkee, Uttarakhand, India
June 13 - July 23, 2019	A school on “Quantum Information and Quantum Technology”, attended	IISER Kolkata, West Bengal, India



August 10, 2023	“short PCS seminar talk”, delivered a talk	Centre for Theoretical Physics of Complex Systems, Institute for Basic Science, South Korea
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PUBLICATIONS

Books/Articles
“Performance of Heisenberg-coupled spins as quantum Stirling heat machine near quantum critical point”, IIT Ropar, Phys. Lett. A (Elsevier), 2022
“Measurement-based quantum Otto engine with a two-spin system coupled by anisotropic interaction: Enhanced efficiency at finite times”, IIT Ropar, Phys. Rev. E (APS), 2023

OTHER INFORMATION

I know the programming Languages: C, C++, MATLAB, Python, and Quantum Toolbox in Python (QuTip).
I have worked as a teaching assistant from 2019 to 2022 at IIT Ropar for various courses of B. Tech. and M.Sc in Physics.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: _____Rupnagar, India_____, __08/02/2024_____