

# Sampurna Karmakar

*Department of Physical Sciences*

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## ACADEMIC DETAILS

Examination	University/Board (Institution)	Year of completion	CGPA/%
Secondary Examination	WBBSE (Rajarhat Sikshaniketan For Girls)	2014	91%
Higher Secondary Examination	WBCHSE (Bishnupur Sir Romesh Institution)	2016	93.2%
Under Graduation	University of Calcutta (Bethune College, West Bengal)	2019	69.5%
Post Graduation	Jawaharlal Nehru University, New Delhi	2021	8.38 (out of 9)
PhD Coursework	IISER Kolkata	2022	9 (out of 10)

## CURRENT POSITION

PhD Research Scholar in IISER Kolkata : (July 2021 - )

## FIELD OF INTEREST

Quantum condensed matter physics (theory) : Mesoscale and nanoscale physics

- mainly focused on interacting 1D systems using bosonization technique

## TECHNICAL SKILLS

- Language: Python, C
- Package: Mathematica, Latex, Gnuplot, Inkscape

## PROJECT

- MSc Project

(Guide: Prof. Debashis Ghoshal , Jan 2021 - May 2021)

Title: Conformal invariance ,  $T\bar{T}$  deformation in quantum mechanics and construction of Lax pairs

## SEMINARS AND WORKSHOPS ATTENDED

- C. K. Majumdar Memorial workshop on experimental Physics : Dec 21- Dec 23, 2016
- Vigyan Vidushi, TIFR : June 1 - June 20, 2020

## ACHIEVEMENTS

- Swami Vivekananda Merit-Cum-Means Scholarship : 2014-2016 and 2016-2019
- GATE - rank 401 : 2021
- CSIR-NET (LS) - rank 149 : June 2020  
UGC-NET (JRF) - rank 247 : June 2021
- Prime Minister Research Fellowship : Nov 2022

## TEACHING ASSISTANTSHIP

- PH1102 : Physics Laboratory I (ongoing) in IISER Kolkata

## PhD Supervisor

Prof. Sourin Das  
Professor, Department of Physical Sciences  
Indian Institute of Science Education and Research Kolkata  
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*Sourin Das*  
*8/2/23*