

# Apratim Rastogi

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## EDUCATION

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### Thapar Institute of Engineering and Technology

*Bachelor of Liberal Arts and Sciences in Physics(Hons) and Philosophy(Minor)*

Aug 2020 - Present

*Current CGPA: 8/10*

### City Montessori School

*Graduated 12th grade with 85% in (PCM, and Computer Science) Graduated 10th grade with 92%*

Jul 2012 - Mar 2020

## RELEVANT COURSEWORK

**Courses:** Mechanics, Quantum Mechanics, Mathematical Physics, Numerical Analysis, Computational Methods, Introduction to Astronomy and Astrophysics, Non-Linear Dynamics, Solid State Physics, Nuclear and Particle Physics, Thermodynamics, Electricity and Magnetism, Electrodynamics, Atomic and Molecular Physics, Classical Mechanics(MSc level), Advanced quantum Mechanics(MSc level)

## SKILLS

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**Languages:** Python, C/C++, Julia, FORTRAN, L<sup>A</sup>T<sub>E</sub>X

**Tools:** GNU Plot, Matplotlib, Tensorflow, Git/GitHub, Unix Shell, VS Code

**Soft Skills:** Academic Writing and Presentation, Analytical Thinking, Strong Communication, and leadership

**Other Relevant Skills:** Mathematical Modeling and Numerical Analysis, Simulations

## PROJECTS

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### Computational modeling of Leonard Jones fluid using Monte Carlo Metropolis algorithm

- Simulated the relation between pressure and density of a randomly configured Leonard Jones fluid at two different temperatures using Metropolis Algorithm with periodic boundary conditions. Code implemented in C++ and Gnuplot

## HONORS AND AWARDS

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### TSLAS merit-based Scholarship

Awarded 50% scholarship for academic performance based on Academic Years 2020 to 2023

Aug 2023

### Attended Workshop on Analytical and Numerical Methods for Soliton (Patiala)

Awarded a certificate for successful completion of a hands-on project.

Aug 2023

### PSI Current Debates in Philosophy of Science (Bengaluru)

Awarded rupees 10000 to attend and participate in the conference organized by Philosophy of Science India at Azim Premji University

Jun 2023

### International Philosophy Conference in India (Delhi)

Received full funding to attend and participate in the conference held in India International Center, Delhi

Jan 2023