

PRITAM ACHARYA

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EDUCATION

Indian Institute of Science Education and Research (IISER) <i>BS-MS, Mathematics</i>	Pune, Maharashtra Aug. 2020 – Dec. 2025
D.A.V. Public School <i>Intermediate, C.B.S.E. (95.2%) [Marksheet]</i>	Cuttack, Odisha Apr. 2019 – Mar. 2020
D.A.V. Public School <i>Matriculation, C.B.S.E. (96.6%) [Marksheet]</i>	Cuttack, Odisha Apr. 2017 – Mar. 2018

EXPERIENCE

Project on Multidimensional Random Walks [Report] <i>Guide: Dr. Anup Biswas [Completion Certificate]</i> <ul style="list-style-type: none">Examined "Simple Random Walks", their first visits, first returns, and 'Gambler's Ruin' problem using geometrical and combinatorial techniques.Examined multi dimensional random walks. Estimated asymptotically, the number of points a walk passes through using combinatorial and analytical techniques.Estimated the rate of escape to infinity of a random walk in more than 3 dimensions. Involved usage of discrete math, involved analysis techniques, and measure theory.	May 2022 – Jul. 2022 Pune, Maharashtra
Web Development <i>Websites developed: IISER Pune's iGEM wiki, Portfolio website</i> <ul style="list-style-type: none">Used HTML, CSS, and JavaScript to develop the structure, design, and functionality of the websites.Involved usage of node.js, and twitter bootstrap.	Oct. 2020 – Present Pune, Maharashtra
Student Mentor <i>D.A.V. Public School</i> <ul style="list-style-type: none">Mentored a select group of individuals in their senior year for science and math olympiads.Responsibilities included conducting mock tests, grading them, and providing students with necessary inputs. Encouraged students to come up with unique and different solutions to the same problem.	Sept. 2020 – Feb. 2021 Cuttack, Odisha

SKILLS

Programming Languages: Python, and SageMath.
Frameworks: NumPy, Pandas, Tensorflow and matplotlib.
Miscellaneous: Proficient in \LaTeX , git, MATLAB, MS Excel and gnuplot.
Front-End: HTML, CSS, and JavaScript.

SCHOLASTIC ACHIEVEMENTS

• Among the 30 individuals to be invited to attend the Radio Astronomy Winter School . Could not attend due to scheduling conflict.	Dec. 2021
• Bronze Medalist in OPhO (Online Physics Olympiad). World rank 10 in the open round, and world rank 17 in the invitational round. [Certificate]	Jul. 2020
• Scored 53/119 in Indian National Chemistry Olympiad . The median score was 32, qualifying marks for the next stage were 54.5. [Marksheet]	Feb. 2020
• Scored 35.5/80 in Indian National Physics Olympiad . The median score was 28.5. [Marksheet]	Feb. 2020
• Among the Top 1% (National Level) to qualify National Standard Examination in Chemistry (NSEC). Invited to appear in INChO. [Invitation]	Jan. 2020
• Among the Top 1% (State Level) to qualify National Standard Examination in Physics (NSEP). Invited to appear in INPhO. [Invitation]	Jan. 2020
• Gold Medalist in Technothon , an exam of logic organized by IIT-Guwahati students, awarded with an All India Rank of 5 among 50,000 candidates. [Certificate]	Oct. 2019
• Awarded with the Kishore Vaigyanik Protsahan Yojana Fellowship by Dept. of Science and Technology, Government of India. [Certificate]	Feb. 2019

KEY COURSES UNDERTAKEN

Physics: Introductory Mechanics, Electrostatics, Introduction to Quantum Mechanics, Thermal and Statistical Physics, Classical Mechanics, Statistical Mechanics 1*

Mathematics: Single Variable Calculus, Multi Variable Calculus, Linear Algebra, Introduction to Probability, Advanced Linear Algebra, Discrete Structures, Real Analysis 1, Group Theory, Graph Theory, Ordinary Differential Equations, Point Set Topology, Rings & Modules, Statistical Inference, Real Analysis 2, Algorithms*, Natural Language Processing*, Measure Theory*, Cryptography*, Advanced Topics in Graph Theory*

(marked courses to be completed by Apr. 2023)*

CO-SCHOLASTIC ACHIEVEMENTS

- Co-founder and convener of FinStreet, the finance club of IISER Pune. 2021
- Semi-finalist in the **PCRA Saksham Quiz**. Represented the state of Odisha in the South Zonal Finals. 2018
- Runners-up in **Mettle Meet Quiz**. Awarded with a cash prize of ₹ 50,000. 2018