WALID HASAN

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EDUCATION

BRAC University   Dhaka, Bangladesh   2022 - 2026
Senior, Major: Physics, CGPA: 3.96 (out of 4.00)

Relevant Coursework:
Ongoing: PHY409 Black Holes Physics, PHY304 Quantum Mechanics 2, PHY302 Fluid Mechanics, CSE482 Quantum Computing 2.
Completed: PHY413 Theory of General Relativity, PHY303 Quantum Mechanics 1, PHY403 Cosmology and Astrophysics, PHY405 Mathematical Physics, MAT301 Group Theory, MAT221 Real Analysis.

Activities:

- News Editor at BracU Express (student-run newspaper).

- Organizer at Merul Badda Talks in Maths & Physics (departmental seminar series).

- Student Organizer at Jamal Nazrul Islam Memorial Winter School 2025, and Jamal Nazrul Islam Memorial Day 2023.

RESEARCH

Research Intern at **ICTP PWF: Physics for Bangladesh**   July - October 2025
Supervisor: **Dr. Ratul Mahanta**, Postdoctoral Fellow, University of Winnipeg, Canada.
Topic: Time dependent backgrounds in string theory.

EXPERIENCE AND VOLUNTEERING

Mehta Fellow and Resident Counsellor at **PROMYS India**   June 2024
Worked as a resident supervisor in a mathematics research program designed for advanced high school students from South Asia supported by the Department of Mathematics, Indian Institute of Science, Bengaluru. Collaborated with faculty and a team of counsellors to create an inclusive and supportive learning environment for the students.

Academic Team Member at **Bangladesh Physics Olympiad**   Feb 2023 -
Moderated and prepared questions and marking schemes for national and regional olympiads, and coordinated training programs for IPhO.

WORKSHOP/ SCHOOL

PWF Bangladesh: School On General Relativity and Cosmology (Online)   May - June 2025
Attended lectures and solved problem sets on advanced topics in general relativity and cosmology from leading experts.

Random Matrix Theory Summer School at Independent University, Bangladesh   June - July 2024
Taught by Dr. Arijit Chakrabarty from ISI Kolkata. Organized by Center for Computational & Data Sciences (CCDS) at IUB.

Virginia Tech Quantum Information Science and Engineering Summer School (Online)   Aug 2022
Worked with Prof. Sophia Economou and learned about the basics of Qubits, and QC circuits; used IBM's QC to run experiments.

SKILLS AND INTERESTS

Programming	Mathematica, Python (NumPy, pandas library), HTML, CSS, C++, LaTeX
Language	Bangla (Native), English (Duolingo English Test: 135/160)