

Abdul Hafiz Tamim

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Education

MS in Physics

May 2025

University of Barishal, Barishal-8254, Bangladesh

BS in Physics

March 2024

University of Barishal, Barishal-8254, Bangladesh

Professional Experience

Research Physicist (Physics)

August 2025-Present

Technical Skills and Competences

- **Electronics & Instrumentation:** Analog & digital electronics, oscilloscopes, multimeters, signal generators, basic circuit design.
- **Experimental Physics Skills:** Experimental design, precision measurement, uncertainty & error analysis, data acquisition and interpretation.
- **Problem Solving & Technical Reasoning:** Root-cause analysis, quantitative problem-solving, logical reasoning, optimization techniques.
- **Computational Physics & Data Analysis:** Python (NumPy, SciPy, Matplotlib), MATLAB, numerical methods, curve fitting, statistical modeling.

Computational Skills

- **Quantum ESPRESSO:** An integrated, open-source suite of computer codes for electronic-structure calculations and materials modeling at the nanoscale.
- **Data Analysis and Visualization:** Origin Pro, SigmaPlot, Python, MatLab
- **Operating System:** Unix, Windows

Publications (Selected)

- Israt Jahan Powsi, Rayhan Miah, **Abdul Hafiz Tamim**, Al Amin, Jubayer Islam Ramim, & Alam, M. K. (2025). Quantifying Black Hole Entropy Increase via Particle Collisions and Randomness. Zenodo. <https://doi.org/10.5281/zenodo.17075058>
- Rayhan, M., Al, A., Md Nurnabe Sagor, Pranto Das, Md. Sabbir Ahmed, Abu Sadat, **Abdul Hafiz Tamim**, Emon, S., Asad, M. A., & Alam, M. K. (2025). An Open-Source Framework for Advanced Correlation Analysis: The KARL Lab Correlation Tool (Pro Edition). Zenodo. <https://doi.org/10.5281/zenodo.17088075>

Professional Training

- Operation and maintenance of “Electrochemical Workstation Potentiostat”

References

Available upon request.

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