

# TALHA MAHAMUD

Research Assistant (Spintronics Lab), Physics Discipline, Khulna University, Khulna 9208, Bangladesh.  
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## AREA OF RESEARCH INTEREST

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- Spintronics
- Physics Driven Machine Learning
- Mathematical Physics
- Astrophysics and Cosmology
- Quantum Mechanics
- Relativity
- Particle Physics

## EDUCATION

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<b>Bachelor of Science in Physics</b> CGPA : 3.34 out of 4.00 Khulna University, Khulna.	February 22, 2022 - December 28, 2025
<b>Higher Secondary School Certificate</b> GPA : 5.00 out of 5.00 Al Hajj Sarwar Khan College, Khulna.	2018 - 2020

## SOFTWARE SKILL

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<b>Operating System:</b>	Windows, Linux
<b>Programming:</b>	C, Python, MATLAB, c++, LaTeX
<b>Microsoft Office:</b>	MS Word, MS PowerPoint, MS Excel
<b>Web Development:</b>	HTML, CSS, Flask
<b>Micromagnetic Simulation:</b>	Mumax3, Vampire
<b>Graphic:</b>	Adobe Illustrator, Blender

See the project on [Github](#)

## ADDITIONAL COURSES

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<b>Scientific Computing with Python</b> freeCodeCamp	January 10, 2023 - November 7, 2023
<b>Supervised Machine Learning: Regression and Classification</b> Instructed by Andrew Ng, Coursera.	June 10, 2023 - October 25, 2023
<b>Advanced Learning Algorithms</b> Instructed by Andrew Ng, Coursera.	May 3, 2024 - July 4, 2024
<b>Learn Differential Equations</b> Instructed by Professor Daniel Gabilondo, Seminole State College, Florida.	January 9, 2024 - March 2, 2024
<b>Linear Algebra</b> Instructed by Professor Gilbert Strang, Massachusetts Institute of Technology.	February 22, 2023 - July 11, 2023

## WORKSHOPS & SEMINARS

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<b>3rd Workshop On Relativity</b> Organised by Community of Physics.	October 3, 2022
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## CO-CURRICULAR ACTIVITIES

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### Fermion Physics Club

2022 - 2024

Instructor, Club Administrator.

### Content Writer, Substack platform

2025 - Present

Natural Science, Machine Learning, Philosophy, Biography.

### Content Writer, Medium platform

2025 - Present

Natural Science, Machine Learning, Philosophy, Biography.

## AWARDS AND ACHIEVEMENT

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### The 2021 University Physics Competition

November 6, 2022

Acc. Competitor.

### NASA space app Challenge

August 22, 2024

Short listed into one of the 50 excellent projects by BASIS.

### University Merit Scholarship-2024

2023, 2024

Issued by Physics Discipline, Khulna University, Khulna-9208, Bangladesh.

## EXPERIENCES

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### Research Assistant

January, 2026 - Present

Khulna University, Physics Discipline

### A WORKSHOP ON MATLAB & PYTHON LIBRARIES

September 20, 2024

Organised by Fermion Physics Club, Khulna University, Khulna.

### Python for Beginners'

May 14, 2023

Organised by Fermion Physics Club, Khulna University, Khulna.

## VIDEO OUTREACH ON YOUTUBE

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- 17 Subscribers
- 1,935 Views
- Educational video series on Ordinary Differential Equation, Linear Algebra, Programming, Problem Solving etc.



## LANGUAGES

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- Bengali (Native)
- English (proficient)
- German (Beginner)

## REFEREES

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