

Ahmed Estiak

Curriculum Vitae

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Education

- Apr, 2019- March, 2023 **MS in Physics**
Shahjalal University of Science and Technology, Sylhet
- Obtained a CGPA of **3.71** on a scale of **4.00**, got **the highest mark in my MS thesis work**, and received several merit based university scholarships for my result.
- Dec, 2013-Apr, 2019 **BSc in Physics**
Shahjalal University of Science and Technology, Sylhet
- Passed the BSc with a CGPA of **3.66** on a scale of **4.00**, stood 3rd among 72 students & got several merit based scholarships from my university for my result.

Research Fellowship

- Jan, 2020– Dec, 2020 **NST Fellowship**
Awarded by National Science and Technology Ministry, Bangladesh
- Received this fellowship for the research of my MSc thesis.

Journal Publication

- May, 2021 **Estiak, A., & Faruque, S. B. (2021). Quantum gravitomagnetic clock effect in Kerr gravitational field.** *New Astronomy*, 85, 101547.
Publisher: Elsevier
- DOI link: <https://doi.org/10.1016/j.newast.2020.101547>
 - I am the first and corresponding author of this paper.

International Patent Application

- Feb, 2023 **Estiak, A., & ALAM, A. T., Title: System for monitoring security guards and monitoring method using the same.**
- Publication Number: WO/2023/008608, International Application No.: PCT/KR2021/009810.

Conference papers

- Aug, 2022 **31st International Astronomical Union General Assembly**, Busan, South Korea
- Title: "Investigating the effect of using the "Talking Planets" mobile application to increase students' engagement and knowledge of astronomy"
- Mar, 2020 **International Conference on Physics-2020**, Dhaka, Bangladesh
- Title: "A quantum analogy to the classical gravitomagnetic clock effect in Kerr gravitational field"

International Astronomical Summer Schools

- Oct, 2019– Nov, 2019 **The 42nd International School for Young Astronomers** (In-person)
Organized by International Astronomical Union, Yunnan Observatories, & Chinese academy of Sciences
- 3-week long and fully funded postgraduate summer school held in Yunnan Observatories, China.
- Nov, 2020– Feb, 2021 **Kathmandu Astrophysics School** (Virtual)
Organized by Kathmandu Astrophysics School Team
- This school covered basic Python coding for astrophysics as well as some important topics and methods used in observational astrophysics.

International Training Program

- Mar, 2021– **Bangladesh Frontier Startups' Business Preparation** (In-person)
Aug, 2021 *Organized by **Korea Productivity Centre, Korea Invention Promotion Association & Ministry of Justice, Republic of Korea***
- **6 months** long training on startup business and intellectual property. Held in Gangnam-gu, Seoul, South Korea.
 - Got the opportunity by winning a startup idea competition.

Astronomical Workshop

- Sep, 2018 **Introduction to astronomical databases and their uses** (In-person)
*Organized by **Maqsudul Alam Science Laboratory** in association with **The Haus der Astronomie and Max Planck Institute for Astronomy, Heidelberg, Germany***
- 2 days long astronomy workshop on **Gaia data release 2** and the way of using astronomical software **Topcat** held in Dhaka, Bangladesh.
- July, 2023 **2023 Sagan Summer Workshop** (Virtual)
*Hosted by **NASA Exoplanet Science Institute, California Institute of Technology***
- 5 days long astronomy workshop on Characterizing Exoplanet Atmospheres.

Work Experiences (Part time)

- Jan, 2014– Nov, 2018 Web Content Manager and Content Creator
Zero to Infinity (a monthly bangla science magazine)
- Jun, 2016– May, 2020 Feature Writer
Roar Bangla [↗](#) (a very popular bangla website)
- Jun, 2020– Aug, 2021 Software Developer
Rokkhi LTD. [↗](#) (a digital security management solution for gated communities)

Extra Curricular Activities

- July, 2018 – **President**
June, 2019 *Copernicus Astronomical Memorial of SUST [↗](#)*
- Official astronomical organization of my former university. I was a general member, study circle executive, study circle director, vice president of this organization in 2014, 2015, 2016, and 2017 respectively.
- Jun, 2009– **General Secretary**
May, 2012 *National Children's Task Force (NCTF) [↗](#)*
- NCTF is a children's organization supported by **Save The Children, Plan International Bangladesh and Bangladesh Shishu Academy**. It works for child rights and child protection. It also publishes a trimonthly newsletter in every district of Bangladesh. I was the chief editor and a regular writer of my district's newsletter.

Skills

- Languages BANGLA (First Language), ENGLISH (IELTS overall band score: 7.5)
- Programming Languages C, ADQL, PYTHON, HTML, CSS, DART
- Softwares/ Platforms \LaTeX , ADOBE PHOTOSHOP, ADOBE AFTER EFFECTS, ANDROID STUDIO, FLUTTER, MICROSOFT EXCEL

International Grants

1. Awarded **Astronomy for Development Grants** [↗](#) funded by **Office of Astronomy for Development** [↗](#) of the **International Astronomical Union** for an astronomy education related project. My project was awarded a total of 8,400 Euros. Project period: Sep, 2020 to Oct, 2022.
 - I am the leader and project coordinator of this project. Project title is **Astronomy for students through interactive app and game** [↗](#).
 - I developed an android application as part of this project which is available in the Play Store. The app's name is **"Talking Planets: Astronomy App"** [↗](#)
2. Awarded a travel grant by the International Astronomical Union and Norwegian Academy of Science and Letters to attend an international astronomical school.
3. Awarded a grant by the International Astronomical Union to attend the 31st IAU General Assembly held in Busan, South Korea. I had a contributed talk there.

Honors and Awards

1. **Champion** in 'Digital Khichuri Challenge-2019' [↗](#).
 - This national level competition was organized by **UNDP** and supported by **Facebook** and **ICT Ministry, Bangladesh**.
 - This competition was about finding a digital way to promote harmony and peace in the community.
 - Our team (consisting of 4 members) won 10,000 US dollars as the champion team.
2. **Champion** in 'Ideathon-Let's Start You Up' [↗](#) competition.
 - This national level competition was jointly organized by **ICT Ministry, Bangladesh** and the **Ministry of Justice, Republic of South Korea**.
 - This competition was about finding an innovative solution for building a smart city.
 - I received six months of training from different institutions in South Korea on patent and business as a champion award. All the expenses were covered by the Bangladesh Government.
3. University scholarships for my academic results.
4. 3 times Bangladeshi govt. scholarship holder.
5. 2nd runner-up in scientific essay writing competition in our university (2014).
6. 2 times district level champion in the essay writing competition.
7. 1 time District level debate champion.
8. 2 times district level drama acting competition champion.
9. 1 time carrom champion in school.
10. Numerous awards for essay writing, stand up comedy, poetry recitation, instant speech, general knowledge competition from my school and other organizations.