# **SHAHER AZAD**

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## **EDUCATIONAL QUALIFICATIONS**

Master of Science in Physics (Thesis Group) 2019 University of Dhaka, Dhaka 1000 **Thesis:** A comparative study of the structural, mechanical, electronic and optical properties between semiconducting transition metal nitride halides ZrNCl and HfNCl using Density Functional Theory (DFT)

GPA: 3.75 out of 4.00

**Bachelor of Science (Honours) in Physics** University of Dhaka, Dhaka 1000 CGPA: 3.85 out of 4.00 (2<sup>nd</sup> position)

## **RESEARCH EXPERIENCE**

Shaher Azad, B. Rahman Rano, Ishtiaque M. Syed and S.H. Naqib A comparative study of the physical properties of layered transition metal nitride halides MNCl (*M* = *Zr*, *Hf*): *DFT* based insights, (2022). <u>arXiv:2209.04980</u>

## Semiconductor Technology Research Center, University of Dhaka

**Research Fellow** 

## WORK EXPERIENCE

## Bangladesh University of Engineering and Technology (BUET), Dhaka 1000

Lecturer

I am working as a full time lecturer at the Department of Physics, currently teaching the courses PHY 102 and PHY 114 to six sections.

## **BRAC University, Dhaka 1212**

- **Course Contract Faculty (Physics)** October 2022 – Present Working as a contractual lecturer teaching the courses PHY111: Fundamentals of Physics I and PHY203: Physics Lab II. Duties include delivering lectures, consulting students, setting question papers, grading answer scripts, assigning assignments, invigilating exams.
- **Teaching Assistant (Physics)** October 2021 – September 2022 I taught the course PHY111 Lab. Took classes, set question papers, evaluated assignments and lab reports, invigilated exams.

## European Organization for Nuclear Research (CERN), Geneva 1211

Associated Member of the Personnel (Summer Student) June 2018 – August 2018 Worked as a summer student and engaged in day to day activities offered by the organization. I was affiliated with the NA61/SHINE experiment that analyzes data gathered from the SPS beam.

## **RELATED EXPERIENCE**

## Asian Science Camp 2017, Kampar, Perak, Malaysia

## **Bangladesh Delegate**

Participated as one of the six delegates chosen to represent Bangladesh in the prestigious Asian Science Camp. I attended lectures given by leading academics, participated in Q/A sessions and a poster competition.

### November 2022 – Present

January 2021 – June 2021

2018

August 2017

## **SCHOLARSHIPS & AWARDS**

•	Ministry of Science and Technology, Dhaka <b>NST Fellowship</b>	2021
•	Faculty of Science, University of Dhaka, Dhaka <b>Dean's Honor Award</b>	2018
•	Directorate of Secondary and Higher Education Government Honors Scholarship	2018
•	Rowshan Innas Ali Welfare Trust Fund, Dhaka <b>Rowshan Innas Ali Welfare Trust Fund Scholarship</b>	2018
•	Dhaka Education Board, Dhaka Higher Secondary School Certificate Scholarship	2014

## **POSTER PRESENTATION**

### University of Dhaka, Dhaka 1000

Research-Publication Fair 2022
 Presented a poster based on my research on DFT based study of layered semiconducting transition metal nitride halides.

### **OUTREACH ACTIVITIES**

### Community of Physics, Dhaka 1205

 Speaker — "3rd Workshop on Differential Equations" October 2019 Lectured for two sessions, created an acting committee, gave logistic support and handled all issues.

## Bangladesh Physics Olympiad Committee, Dhaka 1209

Academic Volunteer
 Evaluated answer scripts for Bangladesh Physics Olympiad.

## SKILLS

- Programming: C++ (Basic), Python (Basic)
- Proficient in MS Word, MS Excel, MS PowerPoint
- LaTeX Typesetting
- CASTEP

### LANGUAGE SKILLS

Bangla (Native) English (Advanced) Japanese (Beginner)

- Junior Certificate in Japanese University of Dhaka, Dhaka 1000
   Score: 388 out of 400
   Result: First Division
- JLPT N5 Score: 167/180 (Vocabulary, Grammar and Reading 103/120, Listening 60/60, 98.6<sup>th</sup> Percentile)

### **TEST SCORES**

- **GRE**: 318 (Quantitative: 169, Verbal: 149, Analytical Writing: 3.0)
- **PGRE**: 860 (74<sup>th</sup> Percentile)
- TOEFL IBT: 106 (Listening: 28, Reading: 27, Writing: 26, Speaking: 25)

2020

January 2015