

KAZI MD ZUBAER

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EDUCATION

Ball State University

M.S. in Chemistry (Ongoing)

GPA: 3.81 (12 credits)

University of Dhaka

M.S. in Organic Chemistry with Thesis.

GPA: 3.66 out of 4.00 (3.87 WES)

Stood 8th in the combined merit list.

University of Dhaka

B.S. in Chemistry.

CGPA: 3.04 out of 4.00

RESEARCH EXPERIENCE

MS Researcher | Ball State University

- Pursuing MS Thesis on “*Synthesis and Characterization of Bismuth-based MOFs (Metal-Organic Frameworks) Heterojunction with BiVO₄ for The Degradation of Persistent Organic Pollutants (POPs)*”
- Used different sophisticated machines like UV-Vis, FT-IR, HPLC, GC, etc.
- Also used some other techniques and instruments like UV-DRS, BET (Brunauer, Emmett and Teller), TEM, XRD, Freeze drying, TGA (Thermogravimetric Analyzer), etc. srr

MS Researcher | University of Dhaka

- Worked in different laboratories for the MS Thesis on "**Chemical Investigation on The Leaves of *Corchorus olitorius L.***"
- Used different sophisticated machines like UV-Vis, IR, HPLC, GC, etc.
- Also used some other instruments like potentiometer, polarimeter.
- Used different types of extraction processes.
- Defended thesis to a jury of 4 professors and a department of ~30 researchers.

BS Researcher | University of Dhaka

- Worked in different laboratories for the final year project on "**Phytochemical investigation on Cauliflower & Cabbage**"
- Used different sophisticated machines like UV-Vis, IR, HPLC, etc.
- Did hot extraction and cold extraction and different types of chromatography techniques like TLC, CC.

RESEARCH INTEREST

Environmental Chemistry, Analytical Chemistry, Medicinal Chemistry, Nanotechnology, Computational Chemistry, Natural Chemistry, Bioorganic Chemistry, Organic Chemistry & Electrochemistry.

LEADERSHIP/JOB EXPERIENCE

Graduate Teaching Assistant | Ball State University

- Proctoring exam
- Grading exam papers
- Instructing CHEM 101, 111 & 112 Labs.
- Drop-in satellite Tutoring

Lecturer of Chemistry| Scholars' School & College (11.15.2018 to 11.25.2022)

- Used a variety of learning modalities and support materials to facilitate the learning process and accentuate presentations.
- Engaged students and promoted intellectual curiosity through hands-on experiments, PowerPoint presentations, and mnemonics to provide a positive attitude towards scientific processes.
- Instructed students in the lab by teaching safety protocols for proper use of chemicals and safe disposal of hazardous materials.
- Evaluated and revised lesson plans and course content to achieve student-centered learning.
- Participated in department meetings to provide input to colleagues about student achievement and improvement.
- Arranged syllabus, developed a schedule, and determined reading list for varied courses simultaneously, giving students appropriate time to complete assignments and absorb information.
- Held weekly office hours to work with struggling students one-on-one and increase GPAs.
- Communicated frequently with parents, students, and faculty to provide feedback and discuss instructional strategies.

Analytical Chemist | Eskayef Pharmaceuticals Ltd. (06.01.2017 to 11.14.2018)

- Performed analysis of pharmaceutical finished products using various methods to test for purity.
- Calibrated and maintained laboratory spectrometers and chromatographs.
- Developed methodologies to identify pesticide residues in pharmaceutical products.
- Troubleshoot equipment adjustments to meet and maintain safety, output, and quality expectations.
- Modified and adapted standard methods and procedures to solve analytical problems.

Quality Control Chemist | Popular Pharmaceuticals Ltd. (08.12.2016 to 05.12.2017)

- Performed quality check of pharmaceutical finished products and raw materials using various methods.
- Trouble shooting different kinds of instruments as necessary.
- Participated in SOP (Standard Operating Procedure) training.
- Gained experience to work under pressure.
- Successfully defended different Audit trials.

Vice President | Dhaka University Students' Association of Uttara (DUSAU)

- Participated in different programs arranged by the association.
- Helped to solve different kinds of problems associated with the organization.
- Participated in different kinds of social activities e.g., distributing warm clothes to the poor, helping street children to learn their ABC, etc.
- Tackled different kinds of obstacles with knowledge and real-time situations.

SKILLS

Computer:	Proficiency in programming with HTML, CSS, Bootstraps, JavaScript, Photoshop.
Language:	Bangla (Native), English (2 nd language),
Instruments:	HPLC, UHPLC, UV-Vis, FT-IR, Polarimeter, Potentiometer, Karl-Fisher Titrator (KF Titrator), GC, TLC, BET, TGA, UV-DRS, XRD, FTIR, TEM and many more.