

## PERSONAL INFORMATION

### Muhammad Shaban Munir

Shah Muhammad Colony, Faisalabad road, Sargodha, Punjab, Pakistan

WhatsApp: +92 305 7600205 | Email: [shaban.munir.edu@gmail.com](mailto:shaban.munir.edu@gmail.com)

Date of Birth: 11 Jan 2002 | Nationality: Pakistani



## RESEARCH INTEREST

Sustainable materials and sensor technologies based on renewable resources for advanced environmental and analytical applications.

## EDUCATION

### University of Agriculture, Faisalabad

Bachelor of Science (BS) in Chemistry (2020-2024)

CGPA: 3.64 / 4.0

**Technical Report Title:** "Advancements in the Solar Industry: Efficiency, Cost, and Environmental Adaptability"

## RESEARCH PROJECTS

### Undergraduate Research Project (Unpublished)

University of Agriculture, Faisalabad, 2024

**Title:** "Advancements in the Solar Industry: Efficiency, Cost, and Environmental Adaptability"

#### Abstract:

- Conducted an in-depth analysis of photovoltaic technologies, focusing on thin-film and perovskite solar cells.
- Highlighted recent improvements in energy conversion efficiency and stability.
- Explored the impact of sustainable materials on reducing production costs.
- Investigated challenges in scaling solar technologies and improving performance under varied environmental conditions.
- Provided insights into the role of solar energy in advancing renewable energy and sustainability objectives.

## RESEARCH EXPERIENCE

### Intern

**Crystalline Chemical Industries (Pvt) Ltd., Sargodha, Pakistan**

June 2022 – August 2022

#### Achievements:

- Collaborated with the Quality Control Laboratory team to ensure the quality of ethanol as the final product.
- Performed thorough analytical tests to verify ethanol purity, concentration, and compliance with industry standards.
- Conducted basic testing and operated spectrophotometers for accurate measurements.
- Worked closely with colleagues to troubleshoot issues and improve testing protocols.
- Maintained precise and detailed documentation of all quality control processes.
- Led research and development projects using various antibiotics to increase alcohol yield and

reduce industrial costs.

---

### **Trainer**

**Hi-Tech Laboratory, University of Agriculture, Faisalabad (UAF), Pakistan**

September 2023

#### **Achievements:**

- Worked under the supervision of the in-charge of Hi-Tech Laboratory, one of the largest laboratories in Pakistan.
  - Gained hands-on experience with advanced analytical instruments used in chemical analysis and material characterization.
  - Operated **High-Performance Liquid Chromatography (HPLC)** for precise separation and identification of chemical compounds.
  - Used **spectrophotometers** to evaluate absorbance and determine concentration levels in various samples.
  - Applied **refractometers** for accurate measurement of solution concentrations.
  - Utilized an **ultracentrifuge** for density-based particle separation in complex mixtures.
  - Conducted detailed structural analysis using a **Scanning Electron Microscope (SEM)**.
- 

### **Content Creator and Video Editor**

**Chemia Solutions Corp, Boston, USA.**

August 2022 – Present

#### **Achievements:**

- Produce premium video content for a YouTube channel focused on simplifying complex chemistry concepts and innovative start-up ideas.
- Translate intricate scientific principles into engaging, easy-to-understand narratives for a broad, non-specialist audience.
- Merge subject matter expertise in chemistry with creative storytelling to deliver informative and visually appealing content.
- Ensure scientific accuracy while making advanced topics accessible and marketable to general viewers.
- Contributed to a significant increase in channel visibility and audience engagement by making advanced chemistry more relatable and appealing.

## **ONLINE COURSES & CERTIFICATIONS**

---

- **Can Renewable Energy Sources Power the World?** — Completed May 2025
- **Climate Change and Renewable Energy** — Completed June 2025
- **Green Investments: Renewable Energy** — Completed June 2025
- **Metals in Medicine** — Completed June 2025
- **What Chemical Compounds Might Be Present in Drinking Water?** — Completed June 2025
- **Discovering Chemistry** — Completed June 2025

## **RELEVANT RESEARCH SKILLS**

---

- High-Performance Liquid Chromatography (HPLC)
- Spectrophotometry (UV/Vis)
- Atomic Absorption Spectroscopy (AAS)
- Nuclear Magnetic Resonance (NMR)
- Gas Chromatography (GC)
- Mass Spectrometry (MS)
- Scanning Electron Microscopy (SEM)
- ChemDraw

## AWARDS & HONORS

---

- **Appreciation Certificate** — Annual Dinner Management, Department of Chemistry, UAF (2023 & 2024)
- **Appreciation Certificate** — Sports Gala Management, Department of Chemistry, UAF (2023 & 2024)
- **Alumni Scholarship Recipient** — University of Agriculture, Faisalabad (2023)  
Received scholarship for outstanding academic performance during undergraduate studies.
- **Provincial Benevolent Fund Educational Scholarship** — Government of Punjab (2016–2023)  
Awarded annually for academic excellence; includes a special high-achiever bonus for securing 90%+ marks in board and university examinations.
- **Internship Certificate** — Crystalline Chemical Industries (Pvt) Ltd., Sargodha (2022)
- **Participation Certificate** — Hult Prize, University of Agriculture, Faisalabad (2021)
- **Best Writing Prize** — Comprehensive Model High School, Sargodha (2017)

## EXTRACURRICULAR ACTIVITIES

---

### **President — PU Bulletin (2025–Present)**

Manage and curate official content sharing for Punjab University, increasing student engagement and campus involvement.

### **Coordinator — Education Updater (2025–Present)**

Lead initiatives to enhance and expand educational access and resources across Pakistan.

### **President — UAF Bulletin (2022–Present)**

Lead the student-run bulletin, managing content creation and promoting campus scientific events to enhance student engagement.

### **Volunteer — Wheat Awareness Campaign, Government of Pakistan (2022–2024)**

Contributed to nationwide awareness efforts promoting sustainable wheat production and food security.

### **President — TGM, University of Agriculture Faisalabad (2023–2024)**

Led and coordinated university-wide TGM events and inter-team collaboration.

### **Joint Secretary — TGM, University of Agriculture Faisalabad (2022–2023)**

Managed logistics, assisted in event planning, and coordinated activities across multiple TGM teams.

### **Member — Child Labor Eradication Program (CLEP), University of Agriculture Faisalabad (2022–2023)**

Supported initiatives aimed at raising awareness and combating child labor in local communities.

### **Coordinator — University Guide Pakistan – UAF Team (2021–2023)**

Guided and mentored new students; facilitated academic and social onboarding.

## LANGUAGES

---

**Mother tongue(s):** Urdu; Punjabi

**English:**

Listening B2 | Writing B2 | Reading B2 | Speaking B2

## REFEREES

---

**Prof. M. Asif Hanif, Dept. of Chemistry, University of Agriculture, Faisalabad**

[drmasifhanif.uaf@gmail.com](mailto:drmasifhanif.uaf@gmail.com)

**Prof. M. Zahid, Dept. of Chemistry, University of Agriculture, Faisalabad**

[drmuzahid.uaf@gmail.com](mailto:drmuzahid.uaf@gmail.com)

**Stacy Chin, Founder of Chemia Solutions Corp, USA**

[Stacy@chemiasolutions.com](mailto:Stacy@chemiasolutions.com)