



MUHAMMAD 'ARIQ ATHALLAH

(+62) 822-8508-4439 | <https://www.linkedin.com/in/muhammadariqathallah/> | muhammadariqathallah03@gmail.com

A Bachelor's degree **graduate in Chemistry** from Syiah Kuala University with competencies and practical skills in **laboratory testing, chemical analysis, and product formulation**. Experienced in the **palm oil industry**, with a comprehensive understanding of **ISO 17025:2017** and **Good Laboratory Practice (GLP)**. Actively involved in various organizations, demonstrating strong leadership and teamwork abilities. Possesses excellent **communication skills** and the **adaptability** to work effectively in new environments and situations.

EDUCATION

Syiah Kuala University – Banda Aceh, Aceh

Aug 2021 – Jul 2025

Bachelor's degree of chemistry – GPA: 3.51/4.00

Undergraduate Thesis: Toxicity Test of Acne Spot Treatment Emulgel Preparation Derived from Extract and Dichloromethane Fraction of Eucalyptus (*Melaleuca leucadendron*) Leaves

- **Tutor for Introduction to Chemistry Course**
Coordinated **23 students** in the Introduction to Chemistry course, developed teaching modules for eight sessions, and delivered instruction on chemical matter and changes, atomic structure and the periodic table, chemical bonding, basic laws of chemistry, and stoichiometry.
- **Organic Chemistry Laboratory Assistant**
Supervised organic chemistry laboratory sessions and guided students through experiments including isopropyl bromide synthesis, compound purification via recrystallization, dye identification using paper chromatography, and the synthesis of picric acid and aspirin.
- **Pertukaran Mahasiswa Merdeka (Student Exchange)**
Selected for a 2023 student exchange program at Airlangga University, **completing 20 credits** with a **GPA of 3.60**.

SMAS Sukma Bangsa Lhokseumawe – Lhokseumawe, Aceh

Jul 2018–May 2021

Mathematics and Natural Sciences – GPA: 93.80/100

- Achieved the **highest grades** in Chemistry, Biology, Economics, Civics (PPKN), and Indonesian Language

WORK EXPERIENCE

PT Perkebunan Nusantara IV – Medan, North Sumatera

Jul 2025

Palm Oil Laboratory Analyst (Internship)

- Conducted **analyses of Crude Palm Oil (CPO) and Palm Kernel Oil (PKO)** from sixteen PTPN IV palm oil mills, including testing parameters such as **free fatty acid** content, **impurity** levels, and **moisture** content.
- Performed **moisture** and **oil** content **analyses** on palm kernel cake and palm kernels from 16 PTPN IV palm oil mills.
- Analyzed cationic and anionic water, feed, and boiler water from 16 PTPN IV palm oil mills, assessing parameters including **pH**, **TDS**, **silica content**, and **hardness**.
- **Entered and processed Fossnirr data** using Microsoft Excel for 16 palm oil mills during one-day production cycles.
- Conducted **field visits** and on-site analysis of production results at Adolina palm oil mill

ORGANIZATION

Himpunan Mahasiswa Kimia – FMIPA USK

Mar 2024 – Feb 2025

President of Chemistry Student Association

- **Led and supervised** the Chemistry Student Association, overseeing **7 departments** with a total of **114 members**.
- Implemented **20 programs**, including an industrial visit to PT Indonesia Asahan Aluminium (INALUM) attended by **36 participants**, Chemistry Fair, cancer and disability awareness initiatives, and Occupational Safety & Health (OSH) and laboratory management seminars attended by **61 participants**.

Badan Eksekutif Mahasiswa – FMIPA USK**Mar 2023 – Feb 2024**

Staff of Student Welfare Department

- Served as the **person-in-charge** for the OPINI MIPA program, creating narrative content on trending scientific issues for publication on the BEM FMIPA Instagram account.
- Participated in various **committees** organized by BEM FMIPA, contributing under the **Events** and **Equipment Division**.

OSIS SMAS Sukma Bangsa Lhokseumawe**Nov 2019 – Feb 2021**

Staff of Education Department

- Served as **the person-in-charge** for the English Day program.
- Supervised students' uniform** compliance according to daily schedule
- Led the SILA program**, introducing the school environment to new students

COMPETENCIES**UV-Vis Spectrophotometry**

Proficient in operating UV-Vis spectrophotometers to measure sample absorbance, with experience in data analysis for concentration determination and percentage inhibition calculations.

Plant Extract Bioactivity Assays

Experienced in conducting various bioactivity assays, including:

- Antioxidant activity using the DPPH (2,2-diphenyl-1-picrylhydrazyl) method
- Antibacterial activity assay
- Antityrosinase activity assay
- Toxicity testing using the BSLT (Brine Shrimp Lethality Test) method

CERTIFICATION AND TRAINING

- | | |
|---|------|
| • SPSS – Solusi Statiska | 2025 |
| • Laboratory Management Based on ISO/IEC 17025:2017 – PT SAFF Suprima Utama | 2024 |

ACHIEVEMENT AND ACCOMPLISHMENT

- | | |
|--|------|
| • Oral Presenter - The ^{3rd} International Conference on Natural Product and Chronic Diseases (IC-NCD) | 2025 |
| • Oral Presenter - The 14th Annual International Conference (AIC) | 2024 |
| • Participant - Pertukaran Mahasiswa Merdeka 2023 (student exchange) to Airlangga University | 2023 |
| • Best Staff - OSIS SMAS Sukma Bangsa Lhokseumawe | 2021 |
| • 2nd Place - Kompetisi Sains Nasional in Chemistry, Lhokseumawe City Level | 2020 |
| • Participant - Kompetisi Sains Nasional in Chemistry, Aceh Province Level | 2020 |
| • Most Discipline Student – Sukma Award | 2020 |
| • 3rd Place - Indonesia Olympiad In Chemistry, Lhokseumawe City Level | 2019 |
| • 2nd Place – Musabaqah Syarhil Qur'an SMAS Sukma Bangsa Lhokseumawe | 2019 |
| • Best Student of Grade XI - SMAS Sukma Bangsa Lhokseumawe | 2019 |
| • Co-Author - Book of Revolusi Digital "Rumah Baru Pendidikan" | 2018 |

SKILLS AND OTHER EXPERIENCES**SKILLS**

- | | |
|--------------|---|
| • Hard Skill | : Microsoft Office (word, excel, power point), Origin, SPSS and Canva |
| • Soft Skill | : Leadership, Problem Solving, Communication, Adaptability |
| • Languages | : Indonesian (native), English (passive) |

OTHER EXPERIENCES

- Participant in Recent Proteomics, Metabolomics, and Lipidomics Approaches Using Orbitrap LC-HRMS – Corpora Sciences.

Certificate Link: <https://bit.ly/sertifikatmuhammadariqathallah>