

AVRIEL SYANU RIZKY MAULIDA

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Fresh Graduate in Chemistry (B.Sc) experienced as a research assistant on academic research projects and as a laboratory assistant. Skilled and experienced in conducting laboratory analysis (physical, chemical and biological parameters), data analysis, reporting technical and scientific research, and presenting research results. Problem-solving oriented, with analytical thinking, discipline, detail-oriented, and well-communicative both individually and collaboratively. Eager to develop a career in the fields of chemical analysis, Quality Control (QC), Quality Assurance (QA), and Research and Development (R&D).

EDUCATION BACKGROUND

UNIVERSITY OF JEMBER

2022 – 2026

Bachelor of Science in Chemistry - Faculty of Mathematics and Natural Sciences

- GPA: 3.70 / 4.00
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WORKING EXPERIENCE

Research Assistant - Keris Dimas Research and Community Service Grant, University of Jember

May - Sept 2026

- Successfully developed a simple conventional pyrolysis reactor for biochar production using baglog biomass, which will be used as a nutrient supplement in mushroom growing media and also as an adsorbent for the adsorption of ammonia and nitrate.
- Successfully synthesised and modified KOH-activated biochar and H₂O₂-oxidised biochar, which exhibit basic pH characteristics (pH 7–9), enriched with oxygen functional groups, and suitable for the adsorption of anionic pollutants, as determined by pH_{pzc} analysis, Boehm titration, FTIR, SEM-EDX, and BET-BJH.
- Collaborated with the research leader in developing a project plan, final report and scientific articles based on the research results of the Keris Dimas Grant entitled “Utilisation of Baglog Waste into Biochar and Training in Biochar Production for Oyster Mushroom Cultivation Business Units in Andongsari Village, Ambulu Sub-district, Jember Regency”.

Laboratory Assistant for Advanced General Chemistry - University of Jember

March – June 2026

- Successfully guided, evaluated and assessed the practical sessions for the Physical Chemistry (Advanced General Chemistry) module for over 30+ Mining Engineering students at the Faculty of Engineering, University of Jember.
- Coordinated with the supervisor and the coordinator of the Advanced General Chemistry Practical Course for 2026 in the preparation of practical modules and the final practical assessment.

Laboratory Assistant for Physical Chemistry II - University of Jember

Aug 2025 – Nov 2025

- Successfully guided, evaluated and assessed the practical sessions for the Physical Chemistry (Advanced General Chemistry) module for over 30+ Chemistry students at the Faculty of Mathematics and Natural Sciences, University of Jember.
- Coordinated with the supervisor and the coordinator of the Advanced General Chemistry Practical Course for 2026 in the preparation of practical modules and the final practical assessment, focusing on the topic of chemical kinetics in the reaction between permanganate ions and oxalic acid using the titration method

Sekretary - PROMAHADESA (Student Village Programme) Grant by University of Jember

May 2025 – Nov 2025

- Successfully developed a simple briquette-pressing machine to convert household charcoal industry waste into marketable briquettes, also authored and published a scientific article entitled “Utilisation of Charcoal Industry Waste as Environmentally Friendly Briquettes Using a Briquette-Pressing Machine” in the journal Abdi Insani, Vol. 13, No. 6.
- Compiled a work plan, project logbook and proposal for community service activities submitted to the Research and Community Service Institute (LP2M) of the University of Jember and our partner, Lojejer Village, Wuluhan Sub-district, Jember Regency.
- Compiled progress reports, final reports and scientific articles resulting from the community service activities for the supervisor and the Research and Community Service Institute (LP2M) at the University of Jember.

Research Asisstant - Research Grant for Junior Lecturer University of Jember

Mar 2025 – Nov 2025

- Successfully cultured and rejuvenated *Lactobacillus plantarum* bacteria, also produced and purified a biosurfactant (cell-free supernatant) from *Lactobacillus plantarum* using a minimal medium enriched with molasses (sugar cane molasses) used for an edible coating on tomatoes and successfully inhibited spoilage in tomatoes for up to 12 days, as evidenced by the minimal reduction in weight loss and total sugar content as determined by TPC analysis.

- Successfully characterised the biosurfactant through an oil spreading test, a biosurfactant filtration test, determination of the emulsification index, physico-chemical analysis (pH, incidence of decay, and weight loss measurements), and biochemical analysis (glucose analysis and TPC/Total Phenolic Content).
- Coordinated with the research leader in preparing the work plan, compiling the final report and scientific articles based on the research results in the Junior Lecturer Grant project entitled “Development of Biosurfactants from *Lactobacillus plantarum* for Edible Coating Applications on Tomatoes”.
- Successfully compiled and presented the research findings at the 2025 University of Jember Colloquium and Dissemination of Research and Community Service Results event.

Laboratory Assistant for Advanced General Chemistry – University of Jember

March 2025 – June 2025

- Successfully guided, evaluated and assessed the practical sessions for the Advanced General Chemistry module for over 30+ Petroleum Engineering students at the Faculty of Engineering, University of Jember.
- Coordinated with the supervisor and the coordinator of the Advanced General Chemistry Practical Course for 2025 in the preparation of practical modules and the final practical assessment.

OC Finance and Logistics BLOOM 1.0 AIESEC in University of Jember

Sep 2024 - Jan 2025

- Successfully managed the allocation of funds for the logistical requirements of the activity, including catering and equipment, to ensure the success of the BLOOM 1.0 Local Project, which involved 51 participants and focused on SDG 3.2.

Laboratory Assistant for Indonesian Chemistry Olympiad (OKI) – University of Jember

August 2024

- Providing guidance, monitoring, and assessment of 3 finalist during the semi-final stage of the 2024 Indonesian Chemistry Olympiad (OKI), organised by the Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Jember.

Laboratory Assistant for General Chemistry – University of Jember

Sep 2023 - Des 2023

- Successfully guided, evaluated and assessed the practical sessions for the General Chemistry module for over 30+ Biology students at the Faculty of Mathematics and Natural Sciences, University of Jember.
- Coordinated with the supervisor and the coordinator of the General Chemistry Practical Course for 2023 in the preparation of practical modules and the final practical assessment.

HONORS & AWARDS

- Presenter at Colloquium and Dissemination of Research and Community Service 2025 University of Jember
- Grantees of the ‘Mahasiswa Berdesa’ Programe (PROMAHADESA) on 2025 University of Jember
- Finalist and 3rd Runner-Up on The ACE Essay Competition 2024 held by Computer Engineering Dept., Universitas Diponegoro
- The 1st winner of *Chemist Start Up Competition* 2023 held by oleh Chemistry Department, Faculty of Mathematics and Natural Sciences, University of Jember.

CERTIFICATIONS & TRAINING

- Good Laboratory Practices (GLP) (2025) – [UPA Integrated Waste and Laboratory Management University of Jember]
- Good Manufacturing Practices (GMP) (2026) – [Makin Ahli]
- Hazard Analysis and Critical Control Point (HACCP) (2026) – [Makin Ahli]
- ISO 22000:2018 (Food Safety Management System) (2026) – [Makin Ahli]
- FSSC 22000 version 6.0 (Food Safety System Certification) (2026) – [Makin Ahli]
- TOEFL – 487 (2026) – [UPA Language Center University of Jember]

COMPETENCE

Laboratory Techniques : Bacterial culture, physico-chemical and biochemical analysis, FTIR, Spectrofotometer UV-Vis
Languages : Indonesian (*native*) and English (*intermediate*)
Software : *Microsoft office (Word, Excel, PowerPoint), OriginLab, ChemDraw, Canva*