

FERA AGISTARIKA

CHEMISTRY GRADUATE | ANALYTICAL CHEMISTRY | ORGANIC CHEMISTRY | LABORATORY ANALYSIS

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PROFESSIONAL SUMMARY

Chemistry graduate from the University of Lampung with a background in Organic Chemistry and knowledge of Pharmaceutical Chemistry. Experienced in laboratory research involving microorganisms, extraction, chromatography, and sample preparation for antibacterial studies. Familiar with reagent and volumetric solution preparation, laboratory equipment, HPLC principles through specialized training, and laboratory documentation using Microsoft Excel and Word. Detail-oriented, willing to learn, and able to work well in a team. Committed to laboratory safety, accurate results, and proper laboratory practices.

EDUCATION

University of Lampung | Bachelor of Chemistry

Aug 2021 – Jun 2025

GPA: 3.53/4.00 (Cum Laude)

Thesis: Profile of Bioactive Compounds from Actinomycetes 19C38A1 Co-cultivated on Oil Palm Fiber Waste Media as Antibacterial Agents against Resistant Pathogens

Relevant areas: Analytical Chemistry, Organic Chemistry, Pharmaceutical Chemistry, Microbiology, Instrumental Analysis.

EXPERIENCE

Laboratory Intern | UPT-LTSIT UNILA

Feb 2024 – Jul 2024

- Conducted laboratory testing, microbiological analysis, and sample preparation in accordance with SOPs and Good Laboratory Practice (GLP).
- Supported research involving 6 marine actinomycetes isolates cultivated on 3 oil palm fiber media and 3 sugarcane bagasse media, including fermentation, extraction, and analytical testing.
- Monitored experimental progress and maintained laboratory records to support data accuracy and traceability.
- Operated Laminar Air Flow, autoclave, incubator, centrifuge, rotary evaporator, analytical balance, and micropipettes safely and efficiently.
- Worked with supervisors and research team members to keep laboratory activities organized and completed according to schedule.

Undergraduate Researcher – Thesis Project | Organic Chemistry Laboratory UNILA

Aug 2024 – Mar 2025

- Prepared liquid and solid microbiological media and performed microbial cultivation using aseptic techniques.
- Conducted antibacterial testing against *Staphylococcus aureus* and *Pseudomonas aeruginosa* using the Resazurin Microdilution Assay.
- Performed sample preparation, bioactive compound extraction, liquid-liquid partitioning, and column chromatography for compound isolation.
- Conducted Thin Layer Chromatography (TLC) and interpreted LC-MS/MS data to support compound characterization.
- Prepared research documentation and analytical reports while maintaining data accuracy throughout the study.

Teaching Assistant | Organic Chemistry Laboratory UNILA

Aug 2024 – Dec 2024

- Guided more than **40 undergraduate students** during laboratory practical sessions and explained experimental procedures.
- Supervised laboratory safety and SOP compliance while assisting lecturers with practical-session preparation and execution.
- Evaluated laboratory reports and provided feedback to improve accuracy and understanding.

English Tutor | Brainy English Program Bimbel Zone

Oct 2025 – Present

- Teach approximately **80 students** from preschool to senior high school and adapt lesson plans to different learning needs.
- Monitor student progress through regular evaluation and maintain communication with students and parents.
- Developed communication, mentoring, adaptability, and time-management skills through day-to-day teaching responsibilities.

LEADERSHIP & PROJECT EXPERIENCE

Secretary – Independent Business Bureau | Chemistry Student Association

Jan 2023 – Dec 2023

- Coordinated entrepreneurship programs involving 21 committee members and followed up on responsibilities to keep activities on schedule.
- Managed communication with external partners and supported partnership activities from coordination through program execution.
- Prepared administrative documents, meeting minutes, activity reports, and financial records to support organized program management.
- Facilitated communication between committee members and external partners to keep activities coordinated.

Head of Public Relations, Publication, Design & Documentation | Industrial Visit

Jun 2022 – Aug 2022

- Led the Public Relations, Publication, Design, and Documentation team for an industrial visit to PT Amerta Indah Otsuka and Tahu Susu Lembang.
- Coordinated communication with company representatives, committee members, and participants during preparation and execution.
- Managed publications and event documentation while following project timelines and agreed deadlines.
- Worked with multiple divisions to support the successful implementation of the program.

CORE COMPETENCIES & TECHNICAL SKILLS

Analytical & Laboratory Operations: Raw Material Analysis, Sample Preparation, Reagent & Volumetric Solution Preparation, Mobile Phase Preparation, Extraction, TLC, Column Chromatography, GLP, GMP Awareness, 5R Implementation, Method Transfer Principles.

Instrumentation & Equipment: HPLC (Principles & Basic Analysis), LC-MS/MS (Data Interpretation), UV-Vis Spectrophotometer (Principles), Analytical Balance, Rotary Evaporator, Centrifuge, Autoclave, Laminar Air Flow, pH Meter, Micropipette.

Software & Data Management: Microsoft Excel (Laboratory Data Analysis & Reporting), Microsoft Word, Google Workspace, ChemSketch, MassLynx.

Soft Skills: Attention to Detail, Teamwork, Problem-Solving, Communication, Willingness to Learn.

TRAINING & LANGUAGES

- Analisis HPLC For Beginner – LabMania Indonesia (2026)
- HIMAKI Training Series – Metoksi: Improving Analytical Competence through Instrumentation Training (2022)
- Public Speaking Webinar – Improve Your Self-Confidence and Show Your Quality (2022)
- Chem In Design x Canva – Express Unlimited Ideas of Creativity in Design (2023)

Languages: Indonesian (Native) | English (Intermediate)