



EDUCATION

Chemistry, Brawijaya University
GPA : 3.75/4.00

August 2021 – July 2025

Providence University, Taiwan
Exchange Student (TEEP program)

September 2025 – January 2026

SKILLS

Instrument Operation: HPLC, FTIR

Data Processing & Interpretation: HPLC, FTIR, ¹H-NMR, ¹³C-NMR, LC-MS

Languages: English (TOEFL ITP 547), Mandarin (Beginner)

Portfolio : https://bit.ly/Portfolio_SyalaishaAmaniKhansa

INTERNSHIP EXPERIENCE

QA/QC & Product Development Intern

PT Polytama Propindo

April 2026 – Present

- Created 2 HPLC analysis methods and PP pellet extraction methods as routine quality control standards to ensure accurate measurement of additive content.
- Created 3 laboratory Standard Operating Procedures (SOPs) detailing standardized additive analysis protocols and calibration curve generation guidelines utilizing LcSolution HPLC software.
- Performed analytical testing on raw materials using FTIR and validated additive concentrations in pellet products via HPLC to ensure compliance with product specifications.
- Compiled comprehensive Product Development Test Reports outlining formulation data, technical parameter results, and conclusions regarding formulation implementation.
- Prepared materials and technical documentation for the ISO 17025 Quality Management System to facilitate laboratory compliance and accreditation processes.

Research Assistant Intern

Cosmetic Science Department, Providence University, Taiwan

September 2025 – January 2026

Research Topic: Gene Promoter Regulation by Anti-aging Compounds in Human Fibroblast Cells

- Analyzed 3 in vitro assay methods via literature review to determine the most effective approach, subsequently designing a research procedure for testing anti-aging compounds on fibroblasts cell.
- Conducted a comprehensive literature review on the bioactivity of research plant to support experimental design and compound screening strategy.
- Performed cell culture techniques (media preparation, cell seeding, subculturing) under sterile laboratory conditions.

Research Assistant Intern

Badan Riset dan Inovasi Nasional (BRIN)

February 2024 – July 2024

- Conducted process development by optimizing reaction parameters during the synthesis of hydroxyxanthone derivatives to maximize product yield and efficiency.
- Conducted compound purification utilizing column chromatography and PTLC to achieve high-purity isolates.
- Characterized compounds using ¹H-NMR and ¹³C-NMR and evaluated antibacterial potential through molecular docking analysis (AutoDock).

ACADEMIC PROJECT

Undergraduate Thesis: Synthesis of Hydroxyxanthone Derivatives via One-Pot Reaction and Their Antibacterial Activity Against MRSA, E. coli, B. subtilis, and P. aeruginosa

National Research and Innovation Agency (BRIN)

January 2025 – July 2025.

- Successfully synthesized four hydroxyxanthone derivatives and identified compound structural using ¹H-NMR, ¹³C-NMR, LC-MS, and FTIR.
- Ensured high purity of synthesized compounds through Column Chromatography and Preparative Thin Layer Chromatography (PTLC).
- Evaluated the in vitro antibacterial properties by conducting MIC (Minimum Inhibitory Concentration) and MBC (Minimum Bactericidal Concentration) assays to assess the potential pharmacological applications of the compounds.

COMMITTEE EXPERIENCE

COMPANY VISIT

Treasurer

May 2023 – August 2023

- Managed 50+ financial transactions and prepared budget recapitulation reports to ensure financial accuracy and cost efficiency.
- Developed a 4-month budget plan and supervised three divisions (funding, consumption & health, logistics) to ensure coordinated execution.

BRAWIJAYA CHEMISTRY WEEK

Staff of Event Division

April 2022 – November 2022

- Selected and coordinated judges and webinar speakers with expertise in renewable energy.
- Drafted MoU and TOR documents and managed communication to ensure structured event implementation.
- Contributed to event theme development and program concept design.

DEPARTMENTAL CAMPUS ORIENTATION

Staff of Secretarial Division

May 2022 – October 2022

- Drafted 50+ official letters and developed SOPs to standardize administrative processes.
- Managed attendance documentation to ensure accurate monitoring and reporting.

ACHIEVEMENT

- Finalist of Newscasting National Competition - Brawijaya English Tournament 2022