

FIDYAH DWI CAHYA
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Bekasi, Jawa Barat, Indonesia

SUMMARY

Fresh graduate of Chemistry from Universitas Brawijaya with hands-on experience in laboratory testing, analytical chemistry, instrument operation, and data analysis. Proficient in conducting qualitative and quantitative analyses, preparing samples, and maintaining laboratory quality and safety standards. Detail-oriented, analytical, and adaptable, with strong communication and teamwork skills. Seeking opportunities to apply scientific knowledge and laboratory expertise across research, manufacturing, quality control, environmental, and industrial sectors.

EDUCATION

Universitas Brawijaya – Malang, Indonesia

Bachelor of Science in Chemistry – English class program

2022 – 2026

SMK SMAK Padang – Padang, Indonesia

Four-Year Vocational High School Program, Analytical Chemistry Major

2018 – 2022

PROFESSIONAL EXPERIENCE

Environmental Laboratory, Departement of Chemistry, Universitas Brawijaya – Malang, Indonesia

Laboratory Research Member

Jan 2026 – June 2026

- Conducted research on the development and application of the Diffusive Gradients in Thin Films (DGT) technique for phosphate analysis in aquatic environments.

Analytical Chemistry Laboratory, Universitas Brawijaya – Malang, Indonesia

Laboratory Assistant

Aug 2025 – June 2026

- Assisted in supervising undergraduate students during Analytical Chemistry I and II laboratory sessions.
- Guided students in understanding fundamental analytical chemistry concepts and provided support during laboratory experiments.
- Ensured compliance with laboratory safety protocols and the proper use of laboratory equipment.
- Assisted in evaluating students' laboratory performance and reports.

Pertamina EP Cepu – Cepu, Indonesia

Laboratory Analyst

July 2025 – Aug 2025

- Conducted chemical analysis of gas, condensate, and process fluid samples to support production operations.
- Operated analytical instruments and laboratory equipment for quality testing and analysis.
- Monitored key quality parameters to ensure compliance with operational and quality standards.
- Recorded, documented, and reported laboratory test results accurately for evaluation and quality control purposes.

UPT PSMB-LT Surabaya – Surabaya, Indonesia

Laboratory Analyst

Jan 2022 – Jun 2022

- Performed laboratory testing on fertilizers, food products, drinking water, and other commodities.
- Conducted chemical analyses in accordance with Indonesian National Standards (SNI).
- Prepared samples and reagents for routine laboratory testing.
- Documented and reported laboratory test results accurately and systematically.

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

MIPA Membangun Desa – Malang, Indonesia

Environmental and Health Division

June – July 2024

- Coordinated the “Petualangan Busa Bersih” community outreach program promoting environmental sustainability and hand hygiene.
- Led the preparation and implementation of a workshop on producing hand soap from used cooking oil.
- Delivered educational sessions on the importance of proper handwashing practices to the community.

Alkalic Chemistry – Malang, Indonesia

Liaison Officer Staff

May 2023 – Oct 2023

- Assisted and guided first-year Chemistry students throughout the 2023 departmental orientation program.
- Served as the primary point of contact, providing information, guidance, and support during orientation activities.
- Facilitated communication between participants and the organizing committee to ensure the smooth execution of the program.

PROJECT

Production of Virgin Coconut Oil (VCO) from Coconut Milk Using Bromelain Enzyme Extract from Pineapple (*Ananas comosus*)

Chemistry Project Course

Aug – Dec 2025

- Evaluated the effectiveness of bromelain enzyme extract in the VCO extraction process and product quality.

Bioethanol Production from Orange Peel Waste

Biofuel Course Project

April – June 2025

- Produced bioethanol from orange peel waste through fermentation and distillation processes.
- Evaluated the potential of agricultural waste as a renewable biofuel source.

Cultivating a Circular Economy through Organic Waste Management Due to the Closure of the Tlekung Final Disposal Site Using Maggots as an Eco-Friendly Pet Food Protein

PKM-DIKTIRISTEK

Feb – Aug 2024

- Contributed to the development of a circular economy approach by converting organic waste into sustainable maggot-based protein for pet food.
- Participated in project planning, waste management activities, and data collection for community-based implementation.

ACHIEVEMENTS

- Recipient of PKM DIKTIRISTEK Research Funding (2024)
- 3rd Place Winner, FEB UB International Essay Competition (2024)
- Top 4 Finalist, IBF Business Essay Competition (2024)

SKILLS

Laboratory Skills	:	Sample preparation, qualitative and quantitative chemical analysis, analytical instrument operation (UV-Vis Spectrophotometer, AAS, FTIR, GC-MS, HPLC), titration, gravimetric and volumetric analysis, laboratory documentation, reagent preparation, calibration, and laboratory safety (GLP).
Technical skills	:	Data analysis and interpretation, laboratory quality control (QC), quality assurance (QA), method validation, SNI-based testing, and SOP implementation.
Soft Skill	:	Teamwork, communication, problem-solving, time management, adaptability, and attention to detail.