

ADITYA MULYADI

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Bogor, Indonesia

Chemistry graduate from IPB University with a strong foundation in analytical chemistry, instrumental analysis, chemometrics, and laboratory practices. Experience in academic research, laboratory internships, teaching, and an international research program has provided hands-on experience in laboratory techniques, chemical testing, sample preparation, instrumental analysis, data processing, and laboratory documentation. Experienced in using DART-TOF-MS, ATR-FTIR, and UV-Vis spectrophotometry, with additional exposure to HPLC and GC-MS, and technical knowledge of LC-MS/MS and AAS. Brings a structured and detail-oriented approach to technical work, with emphasis on following analytical procedures, maintaining data accuracy, and clearly documenting results. Familiar with GLP, SNI ISO/IEC 17025:2017, analytical method validation and verification, measurement uncertainty, and measurement system analysis. Interested in analytical work involving chemical testing, laboratory instrumentation, data analysis, and consistent application of laboratory quality practices.

Education Level

IPB University - Bogor, Indonesia

Aug 2022 - Aug 2026

Bachelor of Chemistry, 3.88/4.00

- Thesis title: Discrimination of *Rubroshorea leprosula* (Miq.) and *Shorea laevis* (Ridl.) and their Geographic Origins Using DART-TOF-MS and Chemometrics
- Relevant Coursework: Analytical Chemistry | Analytical Chemistry Laboratory | Spectrometry | Chemometrics | Statistics and Data Analysis | Halal Assurance System | Quality Standardization System

Work and Research Experiences

Vocational School, IPB University - Bogor, Indonesia

Jan 2026 - Jun 2026

Teaching Assistant – Chemometrics Course

- Conducted tutorial sessions for 60+ undergraduate students covering chemometrics, multivariate statistics, and experimental design.
- Guided students in analytical data analysis and interpretation using statistical software, including Design-Expert for design of experiments (DOE).

Faculty of Engineering, Gifu University - Gifu, Japan

Nov 2025

Research Student (Short-Term Stay Program)

- Participated in a one-month research program under supervision Prof. Lim Lee Wah.
- Synthesized polymer-based monolithic stationary phases for capillary liquid chromatography (CLC) applications.
- Characterized the physical morphology and chemical properties of monolithic columns using SEM and ATR-FTIR techniques.
- Evaluated chromatographic separation performance of alkylbenzene mixtures using CLC systems.

Advanced Research Laboratory IPB University - Bogor, Indonesia

Oct 2025

Laboratory Intern

- Performed chemical profiling of timber samples using direct analysis in real time time-of-flight mass spectrometry (DART-TOF-MS).
- Assisted LC-MS/MS analysis, sample preparation, and laboratory workflows supporting analytical chemistry research.
- Organized and interpreted analytical data to support result documentation and reporting.

Tropical Biopharmaca Research Center - Bogor, Indonesia

Sep 2025

Laboratory Intern

- Performed thin-layer chromatography (TLC) profiling for phytochemical characterization of natural product extracts.
- Assisted GC-MS analysis, including sample preparation and analytical data collection following standard laboratory procedures.
- Assisted antioxidant and α -glucosidase inhibition assays using an ELISA microplate reader to evaluate bioactivity of natural product extracts.
- Documented analytical data supporting result interpretation, laboratory reporting, and research documentation.

Department of Chemistry, IPB University - Bogor, Indonesia

Jan 2025 - Jun 2025

Laboratory Assistant – Physical Chemistry Course

- Supervised laboratory sessions per groups for 60+ undergraduate students during practical activities.
- Guided experiments on enthalpy of fusion and freezing-point depression while assisting students in data interpretation.

Department of Chemistry, IPB University - Bogor, Indonesia

Jan 2025 - Jun 2025

Laboratory Assistant – Basic Chemistry Course

- Supervised laboratory sessions per groups for 60+ undergraduate students during practical activities.
- Guided students in pH meter operation, buffer solution preparation, and laboratory safety

Department of Chemistry, IPB University - Bogor, Indonesia <i>Laboratory Assistant – Analytical Chemistry Course</i>	Jul 2024 - Sep 2024
- Supervised laboratory sessions per groups for 60+ undergraduate students during practical activities. - Guided students in solid-liquid extraction techniques, including maceration, sonication, reflux, and Soxhlet extraction while reinforcing laboratory safety.	

Department of Chemistry, IPB University - Bogor, Indonesia <i>Laboratory Assistant – Science and Technology Chemistry Course</i>	Jul 2023 - Dec 2024
- Supervised introductory laboratory sessions per groups for 60+ undergraduate students. - Guided students in fundamental laboratory techniques, experimental procedures, and laboratory safety.	

Organizational and Volunteering Experiences

Pekan Sains Nasional 2024 – Chemistry Challenge - Bogor, Indonesia <i>Head of Competition Division</i>	Jan 2024 - Oct 2024
- Led 9 committee members in developing competition materials, technical procedures, and evaluation criteria for 90+ high school teams. - Coordinated 3 judges and cross- functional committees to ensure consistent procedures, fair evaluation, and smooth competition execution.	

Pekan Sains Nasional 2023 – Chemistry Challenge - Bogor, Indonesia <i>Competition Division Staff</i>	Jan 2023 - Oct 2023
- Supported the development of competition materials, technical procedures, and evaluation criteria for 100+ high school teams. - Collaborated with 3 judges and 8 committee members to review materials and coordinate technical requirements and competition execution.	

International Conference on Spices, Herbs, and Aromatics (ICSHA) 2026 - Bogor, Indonesia <i>Committee Member</i>	Jun 2026
Provided technical and operational support for onsite and virtual scientific sessions involving 100+ participants.	

Skills, Certifications, and Achievements

Technical Skills: Analytical Chemistry Laboratory Techniques Instrumental Analysis Chemometrics & Statistical Data Analysis Laboratory Documentation Analytical Instrumentation: DART-TOF-MS ATR-FTIR UV-Vis Spectrophotometry Additional Exposure: HPLC GC-MS Technical Knowledge: LC-MS/MS AAS Software: Microsoft Excel Minitab OriginPro SPSS Design-Expert Orange Data Mining Certifications: SNI ISO 17025:2017 Chemical Methods: Validate, Verify, Calculate Uncertainty Measurement System Analysis Good Laboratory Practice SNI ISO 45001:2018 Hands-On Training on DART-TOF-MS English Proficiency: TOEFL Prediction Test [570] Achievements: Recipient of the Program Kreativitas Mahasiswa Riset Eksakta (PKM-RE) 2024 Research Grant	
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