



ILHAM ZULFA GHAFARA

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Bogor, West Java, Indonesia, 16310

Scopus-indexed co-author and BNSP certified with a strong foundation in instrumental analysis and transition metal catalysis. Proficient in operating AAS, HPLC, GC, FTIR, and UV-Vis, with proven experience in laboratory quality control and research publication. He has a good track record of leadership so adept for both independent and collaborative work style. Currently interested in contributing to the positions of laboratory analyst, analytical development, quality control, and applied research.

Education Background

Universitas Padjadjaran  - Sumedang, Indonesia

Aug 2020 - Aug 2024

Bachelor of Chemistry (RSC accredited) 160/144 credits, 3.50/4.00

- Thesis: Synthesis of New Copper(I) Complex Compounds containing Ar-Bian Ligands and Study of Catalysis Activity for C-C Coupling Reactions.
- Co-author in Chemistry An Asian Journal (Q1): Pd-Catalyzed Oxidative C-H Arylation of (Poly)fluoroarenes with Aryl Pinacol Boronates and Experimental and Theoretical Studies of its Reaction Mechanism.
- Co-author in Chemistry Select (Q3): HKUST-1-Catalyzed Homocoupling of Arylboronic Acids.

SMK - SMAK Bogor (SMAKBO)  - Bogor, Indonesia

Aug 2016 - Aug 2020

Diploma in Analytical Chemistry (Excellent accredited), 85.76/100.00

- Project Work: Quality analysis of herbal toothpaste containing green tea brand "Z" based on SNI.

Work Experience

PT Novell Pharmaceutical Laboratories - Bogor, Indonesia

Feb 2025 - Present

Quality Control Staff

- Performed chromatographic analysis (HPLC & GC) up to 13 instruments daily on raw materials and finished products.
- Led and coordinated team of 6 analysts to improve turnaround time and maintain strict SOP compliance.
- Ensure the calibration and maintenance of laboratory instruments and the use of reagents.
- Provided data-driven decisions for batch release/rejection.

Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran - Sumedang, Indonesia

Aug 2023 - Jul 2024

Laboratory Assistant for S1 Chemistry and D4 Chemical Industrial Technology study programs

- Developed 19 practicum modules in synthesis, separation, and instrumental analysis.
- Introduced glovebox and Schlenk line operation for handling air-sensitive compounds.
- Guided 90+ students in analytical procedures while ensuring compliance with GLP standards.

Career Development Center at Universitas Padjadjaran - Sumedang, Indonesia

Sep 2023 - May 2024

Manager Event Management Intern

- Increased digital engagement by 42% through daily content production.
- Coordinated 12 career programs for 8000+ participants; increased company & visitor turnout by 16% and 52% respectively.

Balai Besar Standardisasi dan Pelayanan Jasa Industri Keramik dan Mineral Non Logam - Bandung, Indonesia

Jan 2023 - Feb 2023

Research Assistant Intern

- Analysis of physical properties in conventional soil raw materials.
- Project Work: Beneficiation of Marine Mining Clays as Raw Material Application for Ceramic Products.

Novell Pharmaceutical Laboratories - Bogor, Indonesia

Nov 2019 - Feb 2020

Quality Control Analyst Intern

- Conducted physical and chemical testing using FTIR, AAS, UV-Vis, HPLC, GC, Karl Fischer of raw materials and finished goods.
- Cleaned and calibrated 6 balances daily under regulated conditions.

- Project Work: Transfer Method for Determination of Phenytoin Content in Capsule using HPLC and UHPLC.

Organization Experience

BEM Kema FMIPA Universitas Padjadjaran - Sumedang, Indonesia

Mar 2023 - Mar 2024

Director of Student Potential Development

- Successfully managed a team of 3 departments to mentor the interests and talents of 2500+ students at the faculty level.
- Managed administrative files and program design negotiations with the faculty.
- Supervised and directed 8 work programs and 7 functional departments using a project management matrix.

BEM Kema FMIPA Universitas Padjadjaran - Sumedang, Indonesia

Mar 2022 - Dec 2022

Vice Head of Arts, Culture, and Sports Department

- Cooperate with the department head in leading a team to implement 3 work programs and 2 functional departments.
- Advocate the needs of infrastructure and operational facilities for student art and sports activities to the faculty every month.

Badan Perwakilan Angkatan (BPA) Himaka FMIPA Universitas Padjadjaran - Sumedang, Indonesia

Dec 2020 - Dec 2021

Chairman of the Supervisory Committee

- Lead a team to assess the performance of the Himaka FMIPA Padjadjaran University executive body for one year of management.

Skills and Selected Achievements

- **Hard Skills** 📌: Competency of HPLC and Chemical Analysis Level III certified by BNSP and VAPRO.
- **Hard Skills** : Handling transition metals (copper, palladium, silver, titanium, etc) and oxygen-/ moisture- sensitive compounds using glovebox and schlenk line technique for homogeneous catalyst.
- **Hard Skills** 📌: Intermediate in English and Proficient in Indonesian.
- **Softwares**: Microsoft Office, Chromeleon, Labsolutions, TopSpin.
- **Soft Skills** 📌: Public Speaking and Communication. I have shared my knowledge, experience and motivation as a speaker to over 900 students at 8 events and as a master of ceremony (MC) to more over 3500 people at 6 events.
- **Soft Skills** 📌: Leadership, Teamwork, and Project Management. I have experience hosting 6 projects as a project manager and coordinator with a team of 5 - 140 people.
- **Modules Taken** 📌: Understanding of ISO 17025:2017, 9001:2015, 14001:2015, and 45001:2018.
- **Achievements** 📌 (2023): 1st winner of the Most Innovative Stand at the 36th PIMNAS Technology and Innovation Exhibition.
- **Achievements** 📌 (2023): Student of the Month (May Edition) awarded by Hyraphene Cabinet Chemistry Student Association.
- **Achievements** 📌 (2023): Himaka The Most Productive awarded at Himaka Awards.
- **Achievements** (2022): 1st Winner of Business Plan Competition 2022 at Chemistry Entrepreneur Fair.
- **Achievements** (2022): Best Webinar/Workshop - Chemistry Fun Days National Seminar was awarded at Mipa Awards.
- **Achievements** (2022): 2nd Nominee of Competition of the Year - Chemistry Fun Days awarded at Unpad Awards.
- **Achievements** (2021): Most Productive Himaka awarded at Himaka Awards.
- **Achievements** (2018): Semifinalist and Favorite Poster Champion of Popular Scientific Work Competition at IPB National Science Party.
- **Achievements** (2018): 2nd place in Science Experiment Competition at Science Creation Event.