

# ARISTA AHDANI

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Magelang, Jawa Tengah, Indonesia

Currently a final year student of the UGM Chemistry undergraduate program. I am currently focusing on the fields of chemical analysis, chemical RnD, chemical QnC, and everything related to the Environmental Chemistry. As a dedicated Environmental Chemistry Analyst with a strong foundation in chemical analysis and environmental monitoring, I have cultivated a comprehensive skill set through hands-on experiences in both academic and industrial settings.

## Education Level

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**Universitas Gadjah Mada - Yogyakarta, Indonesia**

Aug 2021 - Jun 2025 (Expected)

*Bachelor Chemistry, 3.51/4.00*

- Became a participant of Program Kreativitas Mahasiswa UGM with the research title "Formulation of Face Cream from Sirih Leaf Extract and Pegagan Leaf as an Anti-Acne Cream Preparation"
- Placed as a finalist in the NESCO University of Indonesia 2023 essay competition with the essay title "TSAF (TianoSil Air Filter): Air Pollution Reduction Solution Based on TiO<sub>2</sub>/Si Nanotube Technology to Realize Green Future and Environmental Sustainability in DKI Jakarta Area"
- Being an assistant for Basic Chemistry and Analytical Chemistry practicum for undergraduate level in three study programs

## Work Experiences

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**Laboratorium Kesehatan dan Lingkungan - Magelang, Jawa Tengah**

Jan 2024 - Feb 2024

*Environmental and Food Chemistry Analyst*

A government institution that focuses on health and environmental sample analysis services consisting of chemical laboratories, clinical laboratories, and microbiology laboratories.

- Participated in field sampling at hospitals, hotels, industries, and restaurants.
- Analyzed over 15 chemical parameters in water samples (groundwater, river water, and drinking water), including: Nitrate, Nitrite, Phosphate, Organic Carbon, pH, Heavy Metals, BOD, COD, TSS, and TDS.
- Interpreted data using national water quality standards to evaluate pollution levels and water safety.
- Conducted analysis of various food samples such as meat, snacks, and wet foods.
- Screened for harmful substances including: Formalin, Rhodamine B, Borax, and others that may pose health risks.
- Contributed to food safety monitoring and enforcement of food additive regulations.
- Operated analytical instruments including the UV-Visible Spectrophotometer and Atomic Absorption Spectrophotometer (AAS) for precise chemical measurements.
- Gained experience in reagent preparation, calibration, and sample processing.
- Data analysis and Reporting
- Interpreted and presented laboratory data effectively.
- Compared results against environmental and food quality standards to determine sample compliance or contamination.
- Assisted in drafting summary reports and providing conclusions on sample safety.
- This internship enriched my skills in chemical analysis, environmental monitoring, instrument operation, and evidence-based evaluation of water and food safety in real-world settings.

**UGM and PT Indominco Mandiri - (Hybrid) Bontang, Kalimantan Timur**

Feb 2024 - Mar 2025

*Research Assistant Professor - Environmental Soil Chemistry Project*

Supervised by Prof. Endang Tri Wahyuni, M.S. and in collaboration with PT Indominco Mandiri, a company engaged in the coal mining sector established in 1996 in Indonesia and is one of the largest coal companies. This company is a subsidiary of the mining company PT Indo Tambangraya Megah Tbk.

- As a research assistant, I am actively involved in a coal post-mining land rehabilitation project, focusing on soil fertility and environmental chemistry aspects. My responsibilities include:
- Conducting analysis of more than 15 soil parameters, including pH, sulfate ions, phosphate ions, organic carbon (C-organic), and other fertility-related indicators.
- Investigating the causes of soil infertility from an environmental chemistry perspective and formulating effective soil recomposition strategies to support plant regrowth.
- Skilled in environmental sampling techniques, laboratory analysis of environmental parameters, and proficient in operating a variety of analytical instruments, such as: UV-Visible Spectrophotometer, Atomic Absorption Spectroscopy (AAS), X-Ray Fluorescence (XRF), X-Ray Diffraction (XRD), Gas Chromatography-Mass Spectrometry (GC-MS)
- Experienced in presenting, interpreting, and reporting environmental data to support strategic decision-making in land rehabilitation efforts.

## Organization and Volunteers Experience

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### **BEM KM Fakultas Matematika dan Ilmu Pengetahuan Alam - Universitas Gadjah Mada**

Nov 2021 - Nov 2024

#### *Staff of Public Relation Ministry*

Intra-campus organization as a medium to grow and develop to escort issues and maintain the image of FMIPA UGM in Gadjah Mada University through a non-profit organization.

- Served as secretary of the ministry for one period with more than 200 outgoing letters.
- Served as secretary for more than 2 major public relations programs.
- Participated as the KSKK division coordinator for the Career Planning event which was able to record and monitor more than 100 participants.
- Became an expert staff of the PR personnel office who managed more than 2 staff upgrading and mentoring programs.
- Became a committee in all public relations work programs as the event division, public relations division, KSK division, and DDD division.

### **Integrated Career Days - Universitas Gadjah Mada**

Apr 2023 - Jul 2023

#### *Event Staff*

Career expo event by inviting more than the 50 companies in Grha Sabha Pramana. Organizing Career Talkshow and direct career consultation with experienced practitioners in the personnel field.

- Conceptualize the event for the 2-day series.
- Creating a guest star appearance scheme and calculating all risks.
- Gained knowledge about the world of work from more than 30 participating companies.

### **Dewan Energi Mahasiswa - Universitas Gadjah Mada**

Jan 2022 - Nov 2023

#### *Public Relation and Treasurer*

An organization that focuses on studies and work programs related to energy, petroleum, and future power sources.

- Became the Best Staff in the External Relations Division in the first term.
- Being the filler of the DEM Podcast program in the first period.
- Became Treasurer for DEM UGM during the second period by managing financial cashflow of more than 5 million every month. In addition, he also communicated with other divisions to disburse funds for more than 25 work programs in one period.

### **Industrial and University Visit - Universitas Gadjah Mada**

Jun 2022 - Oct 2022

#### *Secretary*

The work program of the Public Relations Ministry of BEM KM FMIPA which collaborates with companies and BEM of other universities to hold visit activities. In 2022, this activity was held at the University of Indonesia and PT Gojek Indonesia.

- Create activity proposals and sponsorship cooperation proposals.
- Create more than 20 outgoing letters as a professional communication medium.
- Organize archives, timeline, and all event secretarial activities in Office tools.

### **Lingkar Studi Sains - Universitas Gadjah Mada**

Nov 2021 - Dec 2022

#### *Staff of Public Relation and Information*

A community within FMIPA that focuses on academic programs in MIPA.

- Liaison between LSIS and more than 8 organizations in MIPA.
- Chaired the LSIS Industrial Visit to Nissin Semarang with more than 30 participants.

### **Young Leader Energy Camp - Universitas Gadjah Mada**

Jul 2021 - Nov 2021

#### *Event Staff*

A competition and seminar on energy and gas organized by Gama Oil and Gas.

- Planned an online event scheme for a bootcamp containing a talk show and essay competition and was able to recruit up to 100 participants for the essay competition and talk show.

## Skills, Achievements & Other Experience

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- **Hard Skills** (2023): Analytical Instrument in Chemistry (Spektrophotometer Uv-Vis, AAS, XRD), Microsoft Office (Word, Excel, Power Point), Google Office (Spreadsheet, Document, Task, Notepad, Presentation)
- **MBKM Penelitian Kimia Analitik** (2024): Pengaruh Penambahan Biochar Pada Tanah Pascatambang Rekomposit Top Soil, Abu Layang, Batu Kapur, Dan Dolomit Terhadap Nutrien Tanah Pascatambang: Optimasi Berat Biochar
- **ISO 14001: 2015 Environmental Management Systems Certified** (2025): Makin Ahli with Credential ID 699/AH-0H2/MA/IV-2025
- **ISO 45001: 2018 Occupational Health and Safety Management Systems Certified** (2025): Makin Ahli with 699/AH-0H1/MA/IV-2025
- **SMK3 PP No. 50 Tahun 2012: Occupational Health and Safety Management System** (2025): Makin Ahli with Credential ID 699/AH-0H4/MA/IV-2025

- **ISO 9001 & ISO 14001 & ISO 45001 Implementer** (2025): Udemy with Credential ID UC-3546307f-a774-48cc-988d-d0564949b194
- **Manajemen Laboratorium tipe B** (2024): UGM with Credential ID 18161/UN1/FMIPA/KIM/DL.13/2024