

# RARA AURELLIA SARI

Malang, East Java • +6281357744703 • [aurelliarara61@gmail.com](mailto:aurelliarara61@gmail.com) • <https://www.linkedin.com/in/rara-aurellia>

---

A Bachelor of Science Chemistry. A dedicated, curiosity-driven and ethically responsible with a proven track-record of achieving to be a winner in 10+ scientific competitions and participating in research at national research centers. Blends strong academic capability with a solid foundation built through 3+ years of practical engagement in chemistry and research and development, and experienced in 5+ leadership roles. Possesses strong analytical thinking, research and development skills and ethically-responsible. A flexible go-getter with a growth mindset, always ready to contribute to make a meaningful impact in any professional setting.

## EDUCATION

---

### **Brawijaya University - East Java, Indonesia**

**August 2021 - July 2025**

Bachelor of Chemistry, Faculty of Mathematics and and Natural Sciences

(GPA 3.67 / 4.00)

## WORK EXPERIENCES

---

### **Research Intern at iLab Badan Riset dan Inovasi Nasional- BRIN RI**

**February - August 2024**

- Conducted R&D on biocompatible hydrogel wound dressings using PVA, starch, crosslinker variations, developing prototypes aligned with ISO 10993 and ASTM D882 standards.
- Executed 5+ advanced physicochemical and mechanical tests (antibacterial, swelling degree, gel fraction, WVTR, FTIR, SEM, XRD, UTM), generating highly reproducible results.
- Co-authored scientific outputs with senior researchers, delivering 98% data accuracy

### **Research Assistant at iLab Badan Riset dan Inovasi Nasional- BRIN RI**

**February - June 2024**

- Engineered porous hydroxyapatite scaffolds using rattan templates via electrophoretic deposition (EPD), achieving optimized structure and porosity.
- Validated material performance through biocompatibility testing, confirming suitability for biomedical applications.

### **Analytical Chemistry Laboratory Assistant - Brawijaya University**

**August - December 2024**

- Mentored 35+ chemistry students in qualitative testing, gravimetry, and volumetric analysis.
- Demonstrated strong laboratory expertise in dilution, pipetting, and titration techniques.
- Improved reliability of data recording, resulting in over 95% consistency in lab outcomes

### **Advanced Organic Chemistry Laboratory Assistant - Brawijaya University**

**August - Dec 2024**

- Guided 35+ students in compound isolation using steam distillation and extraction methods, ensuring 100% completion of lab objectives.
- Demonstrated purification and characterization techniques (sublimation, recrystallization, TLC, UV-Vis, FTIR, GC-MS).
- Assisted students in experiment completion and accurate data interpretation

### **Product Development Specialist - Smartpath EduTech**

**February- June 2024**

- Designed 3 curricula in digital marketing, data analytics and web development; presented to corporate partners.
- Analyzed customer journey and market trends to drive product development.
- Managed expert-class programs, strengthening research-based learning outcomes..

### **Fundamental of Chemistry Laboratory Assistant - Brawijaya University**

**August 2023 - Dec 2024**

- Instructed 30+ biology students in solution preparation, standardization, distillation, colorimetry and l. ensuring safe and accurate lab practices.
- Assessed 20+ students through reports, pretests, lab work, and final exams and improving performance consistency.
- Collaborated with lab staff to prepare and maintain chemicals and equipment.

## ORGANIZATION EXPERIENCES

---

### **Faculty Research and Science Center- Brawijaya University**

**2022 – 2024**

Supervisor Board of Research and Development Division

**January- December 2024**

- Supervised organizational performance within the research and development scope, ensuring alignment with strategic goals.
- Coordinated cross-functional initiatives to integrate research outputs into organizational strategies

**Steering Committee of Research and Development Division** **March - December 2023**

- Supervised 5 key work programs, including research initiatives, competitions, RITMA projects, community service, and copyright management
- Designed organizational structure and led staff recruitment for the upcoming cabinet.

**Staff of Research and Development Division** **March - December 2022**

- Designed RITMA administrators' agenda, portfolios, copyright bookkeeping of student works.
- Implemented community service projects by applying innovative solutions to village challenges.

**Chemistry Student Association** - Brawijaya University

**Staff of Quality Assurance Control Division of the Organization** **February - December 2022**

- Evaluated staff performance to ensure compliance with operational standards.
- Organized staff forums to facilitate feedback, address aspirations, and provide recognition.

## CERTIFICATIONS AND TRAININGS

|                                                                                |                    |
|--------------------------------------------------------------------------------|--------------------|
| <b>Food Safety Management System ISO 22000-2018</b> - Makin Ahli               | <b>August 2025</b> |
| <b>Food Safety System Certification (FSSC) 22000</b> - Makin Ahli              | <b>August 2025</b> |
| <b>Good Manufacturing Practices (GMP)</b> - Makin Ahli                         | <b>August 2025</b> |
| <b>Hazard Analysis and Critical Control Point (HACCP)</b> - Makin Ahli         | <b>August 2025</b> |
| <b>Quality Assurance and Quality Control Training</b> - Makin Ahli             | <b>August 2025</b> |
| <b>HACCP Document Preparation Training</b> - Makin Ahli                        | <b>August 2025</b> |
| <b>Research and Development Formulator Supervisor Training</b> - Latih         | <b>August 2025</b> |
| <b>Microsoft Office Desktop Application Training</b> - Trust Training Partners | <b>June 2025</b>   |
| <b>English Proficiency Test (BEPT)</b> - Brawijaya Language Center             | <b>May 2025</b>    |

## ACHIEVEMENTS AND AWARDS

|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
| • 1st Winner International Science Invention Fair - Udayana University, Indonesia | Nov 2023  |
| • 3rd Winner Youth Mining Camp Competition - UPNVY, Indonesia                     | May, 2023 |
| • Bronze Medalist MARS LKTI Competition - UNY, Indonesia                          | Mar, 2023 |
| • 1st Winner International Youth Business Competition - IPB, Indonesia            | Jan, 2023 |
| • 2nd Winner Global Competition for Life Sciences - IPB, Indonesia                | Jan, 2023 |
| • 1st Winner National Applied Science Project Olympiad - ITS, Indonesia           | Dec, 2022 |
| • 1st Winner Indonesia International Applied Science Project Olympiad - ITS       | Dec, 2022 |
| • 2nd Winner Asean Innovative Science Environmental and Entrepreneur Fair - IPB   | Apr, 2022 |
| • Passed Funding Program Mahasiswa Wirausaha - UB, Indonesia                      | Feb, 2022 |
| • Funding Finalists Program Kreativitas Mahasiswa (PKM) - UB, Indonesia           | Jan, 2022 |
| • 1st Winner International Science Invention Fair - UPI, Indonesia                | Nov, 2021 |
| • 1st Winner Youth International Science Fair - UNDIP Indonesia                   | Oct, 2021 |
| • 1st Winner Youth National Science Fair - UNDIP Indonesia                        | Oct, 2021 |

## SKILLS

|                    |                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Language</b>    | : Bahasa Indonesia (Native), English (Advanced)                                                                                                                                                                                                                          |
| <b>Software</b>    | : Microsoft Office, Origin-Lab, ChemDraw, Marvin-Sketch, Canva, Notion, Trello                                                                                                                                                                                           |
| <b>Hard Skills</b> | : Research and Development, Good Laboratory Practice (GLP), Good Manufacturing Practices (GMP), Analytical Chemistry & Laboratory Techniques (FTIR, UV-Vis, SEM, XRD, GC-MS, UTM), QC & QA (ISO, ASTM, SNI standards) Hazard Analysis and Critical Control Point (HACCP) |
| <b>Soft Skills</b> | : Creative, Critical Thinking, Growth Mindset, Effective communication, Problem Solving, Teamwork and Leadership,                                                                                                                                                        |