

VINKA MAHARANI

+62 812-1311-2719 | vinkamaharani08@gmail.com | [linkedin.com/in/viennncarynie](https://www.linkedin.com/in/viennncarynie)
West Jakarta, DKI Jakarta, Indonesia

SUMMARY

Chemistry graduate from Universitas Negeri Semarang with a GPA of 3.76/4.00 and hands-on experience in laboratory analysis, chemical analysis, material synthesis, and research. Skilled in sample and solution preparation, extraction, filtration, titrimetric and gravimetric analysis, proximate analysis, data analysis, and operating laboratory instruments including UV-Vis Spectrophotometer, FTIR Spectrophotometer, Universal Testing Machine (UTM), and Contact Angle Goniometer, with familiarity with AAS, XRD, SEM, HPLC, and GC-MS. Experienced in developing bio-based biocomposite films for active packaging applications at BRIN, with strong analytical, attention to detail, problem-solving, and teamwork skills.

WORK AND INTERNSHIP EXPERIENCE

National Research and Innovation Agency (BRIN)

Feb 2025 – Jul 2025

MBKM Research Intern

- Prepared and fabricated biocomposite films by developing and optimizing formulation compositions and material concentrations.
- Conducted film characterization using UV-Vis Spectrophotometer, FTIR Spectrophotometer, Universal Testing Machine (UTM), and Contact Angle Goniometer.
- Evaluated physicochemical, mechanical, and antibacterial properties through experimental data processing, analysis, and interpretation.
- Analyzed the effects of cellulose nanocrystals (CNC) and curcumin on film characteristics using experimental results and scientific literature.
- Documented experimental procedures, findings, and research results in scientific reports.

EDUCATION

Universitas Negeri Semarang (UNNES)

Aug 2022 – Jul 2026

Bachelor of Chemistry | GPA: 3.76/4.00 - Cum Laude

- Focus: Organic Chemistry, bio-based materials, green chemistry, and active packaging.
- Undergraduate Thesis "Sintesis Biokomposit Film PLA-S Diperkuat Nanokristal Selulosa (NCC) *Agave gigantea* dan Kurkumin sebagai Kemasan Aktif dalam Preservasi Apel Potong"

TRAINING AND PROFESSIONAL DEVELOPMENT

- National Seminar & Workshop** – Artificial Intelligence and Social Media — Himpunan Mahasiswa Bisnis dan Manajemen Ritel, Politeknik Indonusa Surakarta | Jul 2026
- Basic Graphic Design Training** — Rumpun Ilmu Kimia UNNES | May 2024
- Compost Making Training** — Rumah Kompos UNNES | Dec 2023
- Leadership School of MIPA SKETSA XII** — Sekolah Kaderisasi FMIPA UNNES | Sep 2022 – Feb 2023

RESEARCH AND ACADEMIC PROJECTS

Undergraduate Thesis – Biocomposite Film Development for Active Packaging

2025 – 2026

Universitas Negeri Semarang

- Conducted synthesis and characterization of PLA-starch biocomposite films reinforced with cellulose nanocrystals and curcumin.
- Performed material preparation, formulation, film fabrication, characterization, and experimental data analysis.
- Evaluated bio-based materials for sustainable food packaging and food preservation applications.

Mini Research – Anti-Aging Serum Formulation

Aug 2024 – Dec 2024

Universitas Negeri Semarang

- Conducted a mini research project on the development of an anti-aging serum formulation based on rambutan (*Nephelium Lappaceum* L.) leaf extract.
- Applied laboratory research methods, sample preparation, experimental procedures, and data analysis throughout the project.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Kimia UNNES

Feb 2024 – Feb 2025

Secretary 2

- Managed administrative documentation for 10+ organizational programs, covering correspondence, filing, meeting records, and activity documents.
- Prepared and maintained meeting minutes and organizational records for 20+ meetings, ensuring decisions and follow-up actions were systematically documented.
- Assisted in preparing 10+ proposals, accountability reports, correspondence, and supporting documents for organizational activities.
- Coordinated with the Secretary 1 and 20+ committee members to ensure complete, accurate, and well-organized administrative requirements.

Himpunan Mahasiswa Kimia UNNES

Feb 2023 – Feb 2024

Student Relations Bureau Staff

- Maintained communication between the Chemistry Student Association and 100+ students to support information dissemination and collection of student aspirations.

- Coordinated with 20+ organizational members and relevant divisions in planning and implementing student-focused programs.
- Supported the execution of 5+ student activities designed to strengthen interaction, communication, and organizational engagement.
- Facilitated timely dissemination of program information and organizational activities through internal communication channels.

Ikatan Himpunan Mahasiswa Kimia Indonesia (IKAHIMKI) Wilayah III

Feb 2023 – Feb 2024

Cadre Development Department Staff

- Supported the planning and implementation of 5+ cadre development programs focused on member development and organizational engagement.
- Coordinated with 15+ department and regional committee members throughout program preparation and execution.
- Assisted in organizing program activities, participant coordination, and administrative requirements to support smooth implementation.
- Developed practical skills in public speaking, communication, teamwork, coordination, and event management through regional organizational activities.

English Debating Society UNNES

Jan 2023 – Jan 2024

Public Relations Staff

- Managed communication and information dissemination for 5+ debate programs, organizational activities, and events.
- Supported publication and promotional activities reaching 100+ students to increase awareness and participation in debate programs.
- Maintained communication with 10+ student organizations and external stakeholders to support event coordination and implementation.
- Assisted in developing and distributing event information across multiple communication channels to ensure timely audience outreach.

ACHIEVEMENTS & RECOGNITION

- **Kartu Jakarta Mahasiswa Unggul (KJMU) Scholarship Recipient** – Provincial Government of DKI Jakarta | 2022 – 2026
- **Copyright Holder** – Environmental Science and Sustainable Development Learning Module | May 2026
- **Patent Inventor** – Method for Producing Polylactic Acid-Starch Biocomposite Films with Cellulose Nanocrystals (CNC) and Curcumin and the Resulting Product | Apr 2026
- **Individual KKN Program** – Eco-Enzyme Production Training from Organic Waste | Oct 2025
- **Mini Research** – Development of Anti-Aging Serum Preparation Based on Rambutan Leaf (*Nephelium Lappaceum L.*) Extract | Aug 2024 – Dec 2024
- **Speaker** – IKAHIMKI Wilayah III School | Aug 2023

SKILLS AND COMPETENCIES

Skillset	: Analytical Thinking, Public Speaking, Problem Solving, Critical Thinking, Attention to Detail, Communication, Teamwork, Time Management, Quick Learner, Adaptability, Responsibility, Leadership, Project Management.
Toolset	: Microsoft Office (Word, Excel, PowerPoint), Google Workspace (Docs, Sheets, Slides), Canva, UV-Vis Spectrophotometer, FTIR Spectrophotometer, Universal Testing Machine (UTM), Contact Angle Goniometer, XRD, SEM, HPLC, GC-MS.
Competencies	: Laboratory Analysis, Chemical Analysis, Sample & Solution Preparation, Material Synthesis, Laboratory Analysis, Spectrophotometric Analysis, Analytical Instrument, Titrimetric & Gravimetric Analysis, Proximate Analysis, Experimental Design, Data Analysis, Report Writing, Scientific Research.
Languages	: Indonesian: Fluent (Written & Spoken). English: Intermediate (Written & Spoken).