



MUHAMAD TINO HARYANTO

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SUMMARY

Bachelor of Chemistry graduate from Universitas Sebelas Maret with experience in catalysis, renewable energy, and laboratory analysis. Possess strong time management, leadership, and communication skills, with the ability to work effectively both independently and in multidisciplinary teams. A fast learner, detail-oriented, and committed to delivering accurate, high-quality results. Eager to contribute to Quality Control (QC), Quality Assurance (QA), Research & Development (R&D), or Analytical Laboratory roles.

SKILLS

Basic chemistry: Titration; Distillation; Extraction; Gravimetric Analysis; Inorganic Synthesis; Sample Preparation; and Statistical Data Analysis (t-test, F-test, ANOVA, and Wilcoxon Rank-Sum Test).

Intrumentation : FTIR; XRD; UV-Vis; UV-Vis DRS; AAS; GC-MS; SAA; NH₃-TPD; GC-FID; and TGA (Trained, knowledgeable, and familiar with the listed Intrument)

Software : Microsoft office (Excel, word, and PPT); Canva; OriginLab; ChemDraw; Rietica; Profex; Findit; and Design Expert.

Interpersonal : Time menegement and priority; creativity and inovation; team leadership; responsible and integrity; problem solving and critical thingking; public speaking; and project management.

EDUCATION BACKGROUND

Bachelor of Science, major in Chemistry, Universitas Sebelas Maret **Aug 2022 - Jun 2026**
Cumulative GPA: 3.53

Bachelor thesis title: Comparative Study of Metal@HZSM-5 and Metal@MOR For the Conversion Of Palm Acid Oil Into Biofuel Through Hydrodeoxygenation Reaction (Under Supervision of Prof. Dr. Khoirina D.N, S.Si., M.Si. and Prof. Dr. Yuniawan H, S.Si., M.Si.)

ACADEMIC AND RESEARCH EXPERIENCE

Staff Intern at Laboration Devision in PT. Semarang Herbal Indoplant **Jan 2025**

Performed comparative analysis of benzoic acid and sodium benzoate preservative concentrations in Tolak Angin Liquid and Tolak Linu Liquid using HPLC, followed by data analysis with parametric and non-parametric statistical methods to evaluate significant differences and validate analytical results.

Laboratory asistant at Universitas Sebelas Maret **Aug 2025 - Jan 2026**

- Coordinated and improved the "Sintesis Garam dan Senyawa Kompleks Nonpolimer 2025" laboratory course, performed UV-Vis, FTIR, XRD, and TGA characterization, analyzed data using Origin, and led the CuSO₄·5H₂O synthesis, purification, and characterization experiment.
- Designed an experimental study on Cu-Co separation via dithizone extraction in chloroform, investigating the effect of pH and evaluating separation efficiency using Atomic Absorption Spectroscopy (AAS).

ORGANIZATIONAL EXPERIENCE

Join Conference on Chemistry 2024 **Aug 2024 - Sep 2024**

- Supported the planning and execution of the Joint Conference on Chemistry (JCC) 2024 at Universitas Sebelas Maret. Coordinated administrative and logistical activities, managed operational workflows, and served as an event operator to ensure efficient conference delivery and a seamless participant experience.

Himpunan Mahasiswa Kimia (HIMAMIA) UNS **May 2014 - May 2024**

- Progressed from Staff to Vice Head of Human Resources at HIMAMIA UNS. Led member development and orientation programs, coordinated staff placement and mentoring, and managed flagship initiatives including NEUTRON 2023–2024, Dies Natalis HIMAMIA, and HIMAMIA Community Service, strengthening leadership, teamwork, and organizational development.