

CAHYO WIDOKO LAKSONO

MES in Environmental Systems, with concentration in
Climate Change Impact and Life Cycle Assessment

Green Court II - 104, 1-11-13

Midoridai, Japan 277-0884

+62 821 36597777

cahyo.widokolaksono@gmail.com

Education

The University of Tokyo

Kashiwa, Japan

Master of Environmental Studies

GPA 4.00/4.00

2022-2024

- Department of Environmental Systems – Transition to Life Cycle Oriented Society Lab.
- Thesis title: Assessing the Potential of Mangrove Restoration for Blue Carbon in Indonesia's Climate Action Strategy: A Spatial Cost-Benefit Analysis under Climate Scenarios.
Supervisor: Yasuaki Hijioka, Fujii Minoru, and Kenichi Nakajima.

Universitas Islam Indonesia

Yogyakarta, Indonesia

Bachelor of Environmental Engineering

GPA 3.81/4.00

2014-2018

- Department of Environmental Engineering
- Thesis title: Performance of *Luffa cylindrica* Sponge Media Coated with Silver Nanoparticles (AgNPs) and Graphene Oxide (GO) for Disinfection Process of Decentralized Wastewater Treatment
Supervisor: Awaluddin Nurmiyanto

Research Experience

- 2022-2024 **Assessing the Potential of Mangrove Restoration for Blue Carbon in Indonesia's Climate Action Strategy: A Spatial Cost-Benefit Analysis under Climate Scenarios.**
National Institute for Environmental Studies (NIES), Japan
- 2018-2019 **Performance of *Luffa cylindrica* Sponge Media Coated with Silver Nanoparticles (AgNPs) and Graphene Oxide (GO) for Disinfection Process of Decentralized Wastewater Treatment.**
Applied Mechanics and Material, TransTech Publications Ltd, Switzerland 2020
- 2017-2018 **Performance evaluation of water filter made from Oyong (*Luffa cylindrica*) fiber coated with silver nano particles for Coliform bacteria removal in wastewater.**
Dspace Journal Universitas Islam Indonesia, Yogyakarta 2018
- 2016-2017 **Volunteerism as a Transformative Solution for Climate Change in Yogyakarta: Assessment of Bike to Campus Policy Implementation.**
RECONSA, Universiti Teknologi Petronas Malaysia, 2016
- 2015-2016 **Pervaporation Optimalization Process for Sea Water Desalination with Prepared Cellulose Acetate Membrane.**
Water Quality Laboratory, Universitas Islam Indonesia

Work Experience

- 2023-present **Biogas Analyst – Arsec Bioenergy Kashiwa Lab, GPSS Group**
Perform biogas optimization experiment and analysis.
- 2020-2022 **Data Analyst – Center for Facilitation of Environment and Forestry Instruments Standard Implementation, the Ministry of Environment and Forestry of Indonesia**

Environmental standards and policy analysis

2016-2018 **Coordinator of Laboratory Assistant – Environmental Quality Lab, UII**
Laboratory materials management, assisting students experiment, and reporting

Leadership

2016-2018 **Zero Waste UII**
Co-founder, Head of Research and Media Division
Zero waste campaign, research, and policy implementation

2016-2017 **Association of Environmental Engineering Students**
Head of Department of Information and Communication
Establish online architecture for organization media

Organization/Community

2023-Present **Institute of Life Cycle Assessment, Japan**
Member

Publications

Nurmiyanto, A.; Ardhayanti, L.I.; Wigati, A. & Laksono, C. Performance evaluation of water filter made from yong (Luffa cylindrica) fiber coated with silver nanoparticles for coliform bacteria removal in wastewater. Appl. Mech. Mater., 2020, 898, 9-15

Conference

2023 **The 19th Meeting of the Institute of Life Cycle Assessment**
Utsunomiya University, Japan

Honors and Awards

2022 **Asian Development Bank – Japan Scholarship Program**
Grant for master program at The University of Tokyo, Japan

2021 **Winner of KLHK SDGs Nation Essay Competition**
Ministry of Environment and Forestry (MoEF), Jakarta, Indonesia

2020 **Blog Competition Winner on Ambition for Climate Adaptation**
Institute for Essential Services Reform (IESR), Jakarta, Indonesia

2019 **Grant for Climate Change Mitigation and Adaptation Capacity Building**
Climate Institute & FNF Foundation, Yogyakarta, Indonesia

2018 **Outstanding Student, Department of Environmental Engineering**
Universitas Islam Indonesia, Yogyakarta, Indonesia

2017 **Sakura Science Program on Renewable Energy and Sustainability**
Tokyo University of Science, Tokyo Japan

2016 **Presenter of Regional Conference on Students Activism**
Universiti Teknologi Petronas, Perak, Malaysia

2015 **PKM-PE Research Grant**
Ministry of Technology Research and Higher Education, Indonesia

Skills

Software QGIS, ArcGIS, AutoCAD, OpenLCA, SimaPro, Python, Fortran

Languages English, German, Japanese, Indonesia

Certified

2022	Data Analyst Professional Academy – Ministry of Communication and Information, Indonesia
2020	Good Regulatory Practice and Regulatory Impact Assessment BSN & ARISE+, Indonesia
2020	ISO 14001 Environmental Management System (EMS) Center for Standards, Ministry of Environment and Forestry, Indonesia
2018	ISO 50001, Energy Management System Center of Environmental Technology Studies, Indonesia
2018	Good Mining Practice PT Environesia Global Saraya, Indonesia

Professional Contribution

2022	Essay Contributor at Majalah Standar: Better Standard Better Living A bimonthly magazine dedicated to disseminating environmental and forestry management. Its purpose is to disseminate written works comprising essays, opinions, and the latest updates concerning the advancement and implementation of environmental and forestry instrumentation standards.
2021	Facilitator for EMS experts to develop the inaugural edition of Environmental Management System Guidelines for SMEs. Collaborate in developing a guideline for SMEs on EMS implementation, with a focus on pilot testing within the plastic recycling industry.
2021	Facilitator for Indonesia Product Category Rules (PCR) Guidelines Collaborate with LCA experts to create a guideline focused on implementing LCA as part of Environmental Product Declarations (EPDs) for PROPER assessment.
2020	Co-author of Indonesia SCP Framework Implementation Strategic 2020-2030 Update Indonesia's 10YFP for SCP with the Sustainable Consumption and Production Implementation Strategic Document.
2020	Co-author of the first edition of Indonesian Sustainable Action Guidelines A collaborative document involving ministries and SCP partners (businesses, communities of practice, local governments, and NGOs) to accelerate systemic behavioral changes towards sustainable practices.