

Phidju Marrin Sagala

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EDUCATION

- 2024-2026 **M.Sc., Tropical and International Forestry**
Georg-August-Universität Göttingen, Göttingen, Germany
- 2017-2021 **B.Sc., Applied Meteorology**
IPB University, Bogor, Indonesia (*With Honours*)
Undergraduate Thesis: Analysis of Mangrove Land Cover Changes on the Vulnerability of the Coastal Areas and Tsunami Impacts in the Mentawai Islands, West Sumatra
Supervisor: Prof. Dr. Ir. Daniel Murdiyarso, MS and Dr. Ir. Yuli Naulita, M.Si

PROFESSIONAL EXPERIENCE

- May'21-
Sept'24
Bogor, Indonesia **Research Consultant** – Center for International Forestry Research – World Agroforestry (CIFOR-ICRAF), (Advisors – Daniel Murdiyarso)
Project - Sustainable Wetlands Mitigation and Adaptation Project (SWAMP)
- Conducted in-depth scientific research about coastal and mangrove vulnerabilities in 3 different areas (Banten, Demak, and Banyuwangi).
 - Measured greenhouse gas (GHG) fluxes (CO₂, CH₄) across different land uses (protected/restored mangroves, abandoned and active aquaculture ponds) using a portable analyzer, and collected Pb-210 sediment cores to estimate sedimentation rates and long-term carbon burial.
 - Performed carbon stock and sequestration assessments, water quality, and remote sensing analysis to identify mangrove cover and biomass through geospatial tools.
 - Maintained the SWAMP international mangrove and wetland database.

PUBLICATIONS

- Published* **P. M. Sagala**, R. K. Bhomia, D. Murdiyarso. Assessment of Coastal Vulnerability to support mangrove restoration in the Northern Coast of Java, Indonesia. (Submitted to the *Regional Studies in Marine Science*, Elsevier)
[Q1 journal and has an Impact Factor of 2.166]
- Published* T. S. P. Ardhani, C. Kusmana, D. Bengen, J. S. Rahajoe, **P. M. Sagala**, B. B. Hanggara, Y. Ginting, M. Royna, D. Murdiyarso. The fate of converted mangroves on the northern coast of Java from the perspectives of losing ground and carbon. (Submitted to the *Front. Ecol. Evol.*, Frontiers)
[Q1 journal and has an Impact Factor of 3.0]

AWARDS AND GRANTS

- 2024 Deutscher Akademischer Austauschdienst (DAAD) – Entwicklungsbezogene Postgraduiertenstudiengänge (EPOS) Master's Scholarship
- 2023 Academic Fellowship Program on Environmental Issues and Natural Resource Management of the Young Southeast Asian Leaders Initiatives (YSEALI) at The Maureen and Mike Mansfield Center of the University of Montana, USA.
YSEALI Grant on Environmental Issues – The Seed Libraries Project of Indonesia and The Philippines

PROFESSIONAL AFFILIATIONS

- Center for International Forestry Research – World Agroforestry (2021-present)
- International Forestry Student Association (IFSA) LC Göttingen (2024-present)
- Perhimpunan Pelajar Indonesia di Jerman (PPI) Göttingen (2024-present)
- IPB University (2017-2022)
- International Association of Students in Agriculture and Related Sciences – *IPB University – Indonesia – Asia Pacific - World* (2018 – 2022)

