

DR. NII AMARQUAYE COMMEY

GEOSPATIAL SCIENTIST & ENVIRONMENTAL CONSULTANT

[Email](#) | [LinkedIn](#) | [ORCID](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Dedicated environmental scientist bridging academic rigor with real-world impact through coastal ecosystem management, remote sensing analytics, and sustainable development solutions. With a career spanning West Africa, Asia, and international research collaborations, I specialize in translating scientific insights into actionable strategies for ecological conservation and climate resilience. Recognized for innovative research on wetland preservation, agricultural sustainability, and flood risk mitigation—with work directly informing policy frameworks across regional development initiatives.

KEY SKILLS

Research Expertise	Ecosystem assessment & monitoring, Remote sensing & satellite data analysis, Environmental impact evaluation
Technical Proficiency	GIS mapping, Spatial statistics, R/Python for environmental analytics, Data visualisation
Leadership & Collaboration	Multidisciplinary team coordination, International research partnerships, Science communication, Knowledge transfer initiatives
Awards	• MEXT Graduate Scholarship, Japan Ministry of Education (2021) • ICRE Award - Online Salon, University of Yamanashi (2023) • Best Graduating Student, Marine & Fisheries Sciences, University of Ghana (2014)

EDUCATION

Ph.D. in Environmental Eng. 2025	M.Phil. in Marine Science 2017	B.Sc. in Oceanography 2014
University of Yamanashi, Japan <i>Coastal wetland ecosystem modifications using geospatial techniques</i>	University of Ghana, Ghana <i>Macrobenthic Infaunal Assemblage Structure Analysis</i>	University of Ghana, Ghana <i>Investigation of Upwelling Dynamics Using Satellite Data</i>

PROFESSIONAL EXPERIENCE

Research Assistant Professor | Apr. 2025 – Mar. 2026

University of Yamanashi, Japan

- Lead development of watershed-scale pollution load models integrating remote sensing, isotopic, and hydrological datasets.
- Process and validate environmental datasets for decision-support applications.

Satellite Data Analysis Engineer | Nov. 2024 – Mar. 2025

Solafune, Japan

- Delivered cloud-based satellite workflows in Google Earth Engine for time-series analysis and change detection.
- Produced visual and technical deliverables supporting environmental monitoring decisions.

Research & Teaching Assistant | Sep. 2024 – Mar. 2025

University of Yamanashi, Japan

- Assisted graduate students in refining research workflows and optimising analytical processes.
- Communicated research outcomes effectively through presentations, reports, and academic writing.

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PROFESSIONAL EXPERIENCE

Environmental Consultant & Marine Biologist | Sep. 2015 – Oct. 2021

ESL Consulting, Ghana

- Designed and implemented environmental monitoring programs for offshore energy and port expansion projects.
 - Coordinated technical meetings with environmental scientists and regulatory authorities.
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CORE COMPETENCIES

Technical Skills

ArcGIS Pro, QGIS, Google Earth Engine, Python, R, SNAP, Satellite Data Processing

Specialised Areas

Remote Sensing, Coastal Ecosystem Assessment, Environmental Impact Assessment, Spatial Modelling

Leadership

Project Management, Team Coordination, Stakeholder Consultation, Academic Mentoring

KEY PUBLICATIONS | [FULL LIST](#)

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1. **Commey, N. A.**, Magome, J., Ishidaira, H., & Souma, K. (2024). Assessment of Rainfall-Runoff and Non-Point Source Pollution Loads in the Sakumo Catchment using GIS and QNSPECT. *Journal of JSCE*, (Accepted).
 2. **Commey, N. A.**, Magome, J., Ishidaira, H., & Souma, K. (2023). Catchment-Scale Land Use and Land Cover Change Analysis in Two Coastal Ramsar Sites in Ghana, Using Remote Sensing. *Water*, 15(20), 3568.
 3. Li, H., Wei, Y., Ishidaira, H., **Commey, N.A.** and Yang, D. (2024). Integrated urban and riverine flood risk management in the Fujiang River Basin-Mianyang city. *Journal of Hydrology*, 645, p.132150.
 4. Wei, Y., Jin, J., Li, H., Zhou, Y., Cui, Y., **Commey, N. A.**, ... & Jiang, S. (2023). Assessment of Agricultural Drought Vulnerability Based on Crop Growth Stages: A Case Study of Huaibei Plain, China. *International Journal of Disaster Risk Science*, 14(2), 209-222.
 5. **Commey, N. A.**, Lamptey, E., & Armah, A. K. (2021). Macrobenthic infaunal assemblage structure in nearshore and offshore seabeds of Ghana. *Indo Pacific Journal of Ocean Life*, 5(2).
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PROFESSIONAL DEVELOPMENT

Conference Presentations:

- The 33rd Global Environmental Symposium; Tottori, Japan (Sep 2025)
- The 32nd Global Environmental Symposium; Kumamoto, Japan (Sep 2025)
- The 20th Annual Western Australian Wetlands Conference, Perth, Australia (Feb 2024)
- International Symposium on Water Environment for Young Researchers, Aichi, Japan (Sep 2023)

Certifications:

- Environmental Impact Assessment - Advanced Scoping Study (Aug 2019)
 - Basic Offshore Safety Induction & Emergency Training - OPITO Approved (Nov 2018)
 - Environmental and Social Impact Assessments (Sep 2016)
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This condensed CV highlights key qualifications. Full detailed CV available [upon request](#).