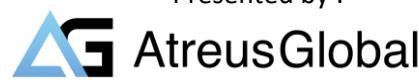




Presented by :



Curriculum Vitae



Muhamad Khairul Rosyidy

Damaji,
Kecamatan Beji, Kabupaten Lombok Tengah,
Nusa Tenggara Barat 53553

Contact Information

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ABOUT ME

Bachelor of Science in Geography from Universitas Indonesia which focused on GIS and Remote sensing. Detail-oriented and research-driven GIS & Remote Sensing Specialist and surveying with 4+ years of experience across agriculture and land-use sectors. Proven track record in leading GIS Team and spatial data initiatives, implementing remote sensing-based solutions, and developing WebGIS platforms for multi-site operations. Strong foundation in remote sensing analysis, environmental monitoring, GIS modelling and data-driven decision-making using cloud-based and Deep learning-powered geospatial tools (Google Earth Engine, Jupyter notebook and Google Colab).

SKILLS

- GIS & Remote Sensing: ArcGIS, QGIS, Google Earth Engine, Google Colab, Jupyter Notebook, Drone/UAV
- Programming: Python, JavaScript (Earth Engine API), R (basic)
- Cloud Platform: Google Earth Engine, SharePoint, WebGIS Dashboard, Google Colab
- Spatial Analytics: LULC, Deformation, Deforestation, Drone Image Analysis, Plant Health
- Soft Skills: Leadership/Team Management, Sustainability, Public Speaking, Analytical Thinking

WORK EXPERIENCE

GIS Supervisor/Head Assistant

Oct 2024 – Present

Capitol Group Indonesia

- Led the GIS team in supporting plantation operations across multiple regions, ensuring timely and accurate spatial data delivery.
- Monitoring hectare statements and crop growth trends using spatial data analysis to improve productivity tracking.
- Developing geospatial tools to detect vacant areas and pest-prone zones, enabling faster and more targeted agronomic interventions.
- Provided cross-functional GIS support to Agronomy, Legal, and Civil division, contributing to smoother operational workflows and data-driven planning.
- Trained and mentored GIS officers across sites to ensure continuous skill development and standardization of spatial data practices

Geospatial Data Analyst

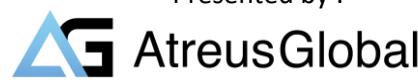
Aug 2021 – Oct 2024

PT Austindo Nusantara Jaya Tbk

- Developed and managed a WebGIS dashboard for oil palm operations across 6 estate concessions, improving spatial accessibility and reporting.
- Analyzed high-resolution multispectral imagery to assess crop health, achieving over 80% classification accuracy.
- Successfully led a research collaboration between Universitas Indonesia and PT ANJ, focusing on remote sensing and plant health analysis.
- Led water management assessments for plantations in Papua and North Sumatra, supporting drainage planning and environmental compliance.
- Conducted quarterly LULC monitoring to support zero deforestation targets across all PT ANJ sites.
- Delivered spatial analysis and field surveys to support land compensation validation for PT GSB.
- Produced thematic maps for land acquisition, RSPO certification, and internal operational decision-making



Presented by :



Research Intern

Sept 2020 – Dec 2020

National Research and Innovation Agency (BRIN)

- Conducted spatial and temporal analysis of oil palm production using Sentinel-2 imagery in Muara Enim, South Sumatra.
- Processed and integrated multi-source satellite data to generate detailed and accurate oil palm distribution maps.
- Drafted and structured scientific manuscripts, ensuring academic rigor, clarity, and adherence to peer-reviewed journal standards

RESEARCH EXPERIENCE

GIS Analyst / Co-Author

Jan 2023 – Jul 2023

National Research and Innovation Agency (BRIN)

- Conducted a research project titled “*From Agriculture to Private City: Gentrifying Rural Pagendanan due to New Town Development in the South-West of Jakarta, Indonesia*”, funded by BRIN.
- Analyzed five years of land-use change data to assess its impact on gentrification and peri-urban transformation.
- Led and coordinated ground truth surveys to validate spatial data.
- Contributed to and Published in a Scopus **Q2 International journal** as co-author

GIS Analyst / First Author

May 2021 – Jun 2021

School of Environment, Universitas Indonesia

- Conducted a scientific research project titled “*Spatiotemporal Analysis of Oil Palm Land Clearing*”, funded by the Directorate of Research and Development, Universitas Indonesia.
- Published in a **Q1 international journal** in January 2024 as first Author.
- Analyzed five years of land cover change in Sumatera using multispectral remote sensing data.
- Assessed the ecological and political impacts of oil palm expansion in peatland and forested areas.
- Designed the research framework, developed the methodology, and led ground truth surveys

EDUCATION

Bachelor of Science in Geography

Faculty of Mathematics and Natural Sciences, Universitas Indonesia, Depok, Indonesia

GPA : 3.68 (Cum Laude)

SEMINARS

Presenter

Sept 2021

The 3rd International Conference on Engineering, Technology, And Innovative Researches, Faculty of Engineering, Universitas Jenderal Soedirman (Purbalingga, Indonesia)

Presenter

Sept 2020

4th IGEOS: International Geography Seminar, Geography Education Department, Indonesia University of Education (Bandung, Indonesia)

HONOURS AND AWARDS

Most Outstanding Student in the Social and Environmental Category (MAPRES)

Apr 2020

Faculty of Mathematics and Natural Sciences, Universitas Indonesia, Depok, Indonesia

2nd Runner-up of the National Scientific Paper Competition of Remote Sensing

Sept 2019

Indonesian National Institute of Aeronautics and Space (LAPAN) / National Research and Innovation Agency (BRIN)

SELECTED PUBLICATIONS

- Rosyidy, M. K., & Frimawaty, E. (2024).** Spatiotemporal analysis of oil palm land clearing. *Global Journal of Environmental Science and Management*, 10(2), 821-836. <https://doi.org/10.22034/gjesm.2024.02.25>
- Kusumaningrum, D., & Rosyidy, M. K. (2024).** From agriculture to new town: land conversion towards new-build gentrification in the southwest of Jakarta, Indonesia. *Journal of Property Research*, 41(3), 276-298. <https://doi.org/10.1080/09599916.2024.2364613>
- Rosyidy, M. K., Wibowo, A., & Sidiq, I. P. A. (2023, February).** Oil palm mapping based on machine learning and non-machine learning approaches using Sentinel-2 imagery. In *AIP Conference Proceedings* (Vol. 2482, No. 1). AIP Publishing. <https://doi.org/10.1063/5.0114333>
- Rosyidy, M. K., Dimyati, M., Shidiq, I. P. A., Zulkarnain, F., Rahamingtyas, N. S., Syamsuddin, R. P., & Zein, F. M. (2021).** Landslide Surface Deformation Analysis Using SBSA-INSAR in The Southern Part Of The Sukabumi Area, Indonesia. *Geographia Technica*, 16(Special Issue), 138-152. http://dx.doi.org/10.21163/GT_2021.163.11
- Rosyidy, M. K., & Wibowo, A. (2020).** GIS-Based Spatial Model for Habitat Suitability of Babirusa (*Babirusa celebensis*), in Gorontalo Province. *Jurnal Geografi Lingkungan Tropik (Journal of Geography of Tropical Environments)*, 4(1), 4. <https://doi.org/10.7454/jglitrop.v4i1.77>