

NAWAF NADER

Environmental Specialist | GIS, Remote Sensing & Machine Learning | Environmental Researcher | Environmental AI

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SUMMARY

Environmental specialist and researcher specializing in Environmental Impact Assessment (EIA), GIS, remote sensing, and AI-assisted environmental analysis. Experienced in preparing and reviewing EIA studies, conducting environmental audits and inspections, and developing AI-powered environmental platforms and GIS applications using Google Earth Engine, ArcGIS Pro, and machine learning techniques, with familiarity in environmental regulatory frameworks and standards. Published researcher and patent applicant in intelligent EIA algorithms, with interests in sustainability, spatial analysis, and environmental technology innovation.

EDUCATION

Ph.D. Studies — Environmental Studies (Geography)

Aug 2025 – Jun 2028

Qassim University, College of Languages & Humanities — Buraydah, Saudi Arabia

- Completed two semesters of doctoral coursework in environmental studies geography)non-graduating(

M.Sc. — Environmental Sciences

Jan 2021 – Dec 2022

King Saud University — Riyadh, Saudi Arabia

- Thesis: "The Extent of Compatibility and Commitment of Saudi Environmental Policies with International Environmental Policies"

B.Sc. — Biology

Oct 2010 – Feb 2014

Umm Al-Qura University — Makkah, Saudi Arabia

EXPERIENCE

Environmental Specialist

Oct 2024 – Jan 2025

Environment Horizons Company — Jeddah, Saudi Arabia

- Prepared and reviewed more than 20 Environmental Impact Assessment (EIA) studies for development projects in compliance with NCEC and MEWA regulatory frameworks.
- Conducted over 50 environmental audits and field inspections across industrial and commercial facilities, producing formal compliance reports with risk assessments and corrective action plans.

Volunteer Environmental Specialist — Cloud Seeding Program

Jul 2024– Aug 2024

National Center for Meteorology — Jeddah, Saudi Arabia

- Conducted and presented research on advanced cloud seeding technologies and recent experimental approaches, including their potential applicability in Saudi Arabia.

Academic Researcher — Environment & Natural Resources (TMHEER Program)

Nov 2023 – Mar 2024

King Abdulaziz City for Science and Technology (KACST) — Riyadh, Saudi Arabia

- Operated GC-Mass, ICP-Mass, and HPLC instruments for environmental sample characterization and pollutant quantification
- Applied remote sensing (ArcMap) and GIS tools for environmental monitoring and spatial data analysis
- Monitored air quality and pollution measurement stations; maintained laboratory safety standards

Science, Biology & Environment Teacher

Sep 2021 – Dec 2021

Delta International Schools — Riyadh, Saudi Arabia

- Delivered science and environmental studies instruction to more than 200 middle and high school students, supporting student engagement and academic performance.

Assistant Warehouse Manager | Licenses Representative — Health Affairs

2016

Al Gosaibi Pharmaceutical Company — Jeddah, Saudi Arabia

- Managed warehouse operations and handled regulatory licensing with governmental health authorities

Pilgrims Dispatch Coordinator

2007 | 2008 | 2009 | 2010

Ministry of Hajj — Makkah, Saudi Arabia

- Managed and coordinated field operations and pilgrim dispatch for more than 5,000 pilgrims across four consecutive Hajj seasons

PUBLICATIONS & PRESENTATIONS

Journal Articles

Nader, N.A., et al. (2026). "Spatio-Temporal Analysis of Land Surface Disturbance and Soil Degradation in and around the Iron Ore Quarry in Al-Jumum Using Remote Sensing and GIS." *International Journal of Scientific Research*. DOI: [\[Link\]](#)

Nader, N.A. (2026). "Environmental Behavior Analysis for Electronic Waste Management in Selected Saudi Cities: A Field Exploratory Study in the Light of the Circular Economy." *International Journal of Scientific Research*. DOI: [\[Link\]](#)

Conference Presentations & Posters

Nader, N.A., et al. (2022). "Afforestation Initiatives and Their Role in Promoting Eco-Tourism in Saudi Arabia." Poster presented at: *Greening Arabia Conference*, 2022. Supervised by Prof. Ahmed Hamad Al-Farhan.

Thesis

Nader, N.A. (2022). "The Extent of Compatibility and Commitment of Saudi Environmental Policies with International Environmental Policies." *M.Sc. Thesis, King Saud University, Riyadh, Saudi Arabia*.

PATENTS

Nader, N.A. (2026). "Smart Hybrid Algorithm for Environmental Impact Assessment Accreditation" Patent Application No. 57842876. Saudi Authority for Intellectual Property (SAIP). **Status: Under Substantive Examination.**

FELLOWSHIPS & AWARDS

Fellow — AI Applications in Education & Scientific Research

[King Abdulaziz University — Jeddah, Saudi Arabia] | Certificate issuance pending completion of Ph.D. degree requirements.

PROFESSIONAL MEMBERSHIPS

International Association for Impact Assessment (IAIA)

Member | Mar 2026 – Present

Engaging with global impact assessment practices and standards, with a focus on integrating international EIA frameworks into the development of the EIA Quality Review Platform.

PLATFORMS & PROJECTS

EIA Quality Review Platform [Link](#)

2026

- AI-assisted platform for reviewing EIA studies, evaluating report quality, detecting methodological errors, and generating revision recommendations based on environmental regulatory references and quality standards.

EIA Simulator [Link](#)

2026

- Developed an interactive Environmental Impact Assessment (EIA) simulation platform for sector-based assessment of potential environmental impacts based on environmental reference frameworks and regulatory guidelines.

Sustainable Development Simulator [Link](#)

2026

- Developed an interactive sustainability simulation platform for assessing developmental sectors, development levels, and environmental policies, with performance comparison against Sustainable Development Goals (SDGs) based on environmental reference frameworks.

GEE ERA5-Land Wind Data Extraction Tool

2026

- Google Earth Engine JavaScript script to extract ERA5-Land wind speed and direction data for Saudi meteorological stations, formatted for ArcGIS Pro integration

Land Use/Land Cover Change Detection – North Jeddah (2005–2025)

2026

- Applied Random Forest classification on Landsat imagery in Google Earth Engine for LULC mapping and change detection, including accuracy assessment using Overall Accuracy (OA) and Kappa coefficient.

TECHNICAL SKILLS

GIS & Remote Sensing: ArcGIS Pro, Google Earth Engine (GEE)

Satellite & Climate Data: Landsat Collection 2 L2, Sentinel-2, ERA5-Land, MODIS, Copernicus Climate Data Store

Spectral Indices: NDVI, SAVI, BSI, LST, Disturbance Index (DI), UHI, NDBI, NDWI, NDMI

Programming: Python (Basic Geospatial) , JavaScript (GEE, Leaflet.js), HTML/CSS

ML & AI: Random Forest, AI-assisted environmental analysis, Prompt Engineering, AI-assisted automation workflows.

Lab Instruments: Introductory training in GC-MS, ICP-MS, HPLC, and air pollution monitoring systems.

Statistical Analysis: SPSS, Microsoft Excel, survey design, and descriptive statistical analysis.

Environmental Standards: NCEC, MEWA, IFC Performance Standards, World Bank ESF, ISO 14001, IAIA

Web Development: React/TypeScript, interactive web applications, Arabic RTL interfaces, and modern UI design.

CERTIFICATIONS

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| - Machine Learning Specialization — Coursera DeepLearning.AI & Stanford Online | 2026 |
| - Artificial intelligence in research and innovation — Imam Muhammad bin Saud Islamic University | 2025 |
| - Natural Resources for Sustainable Development — Edraak & The World Bank | 2023 |
| - Solid Waste Management — Edraak — EU/German Cooperation | 2023 |
| - Strategic Planning for Organizations — HADAF | 2023 |
| - Crisis and Disaster Management — HADAF | 2023 |
| - Environmental Geology and Community Service — Taibah University | 2021 |
| - Teamwork Skills & Workplace Communication — HADAF | 2021 |
| - Smart Work Ethics — HADAF | 2020 |
| - Volunteer — Nano Club (30 hours) — King Saud University | 2019 |
| - Bioinformatics — Istanbul University — British Academy | 2017 |
| - Basic Work Skills — HADAF | 2017 |
| - Scientific Publishing — Al-Qassim University | 2016 |
| - Business Management Consulting — Integrated Spiritual Vision Institute, Kuwait | 2016 |

LANGUAGES

Arabic — Native **English** — Professional working proficiency

REFERENCES — AVAILABLE UPON REQUEST