

**Abdallah Abdelmajeed**  
PhD Student

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## **Profile**

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PhD candidate in Environmental Engineering with extensive experience in UAV-based research, remote sensing, and geoinformation science. Proven record in academic teaching, research project management, and publication in high-impact journals. Adept at integrating innovative earth observation techniques with smart agricultural applications and environmental analysis.

## **Education**

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- **Ph.D. in Environmental Engineering**  
Poznan University of Life Science, Poznan, Poland | 2021 – Expected Sep 2025
- **M.Sc. in Geoinformation Science, Earth Observation and Spatial Management**  
Poznan University of Life Science, Poznan, Poland | 2019 – 2021
- **B.Sc. in Agriculture**  
Fayoum University, Fayoum, Egypt | 2013 – 2017

## **Research & Project Experience**

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- **Impact of Heatwaves and Droughts on Peatland Vegetation**  
*Poznan University of Life Science* | Oct 2021 – Present
  - UAV data acquisition and processing to analyze drought and heatwave impact on sun-induced fluorescence, photosynthesis, and vegetation parameters.
- **Intern-Drought Monitoring**  
*AgriWatch, Enschede, The Netherlands* | Jul 2020 – Sep 2020
  - Team member responsible for UAV-based data collection, hypothesis generation, and pattern classification.
- **Research Assistant - Smart Agrihub**  
*Poznan University of Life Science* | Mar 2020 – Sep 2020
  - Assisted in field measurements and designed ground control points for UAV flights in support of precision agriculture research.

## **Teaching & Academic Involvement**

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- **Course Assistance**  
Assisted in delivering seminars and classes in:
  - Geoinformation Science and Spatial Management
  - Recent Advances in Environmental Engineering
  - ESA and NASA Earth Observation Missions, Platforms and Databases
  - Climate Aspects in Spatial Planning*(Courses delivered in English)*

- **Reviewer for International Journals:**
  - International Journal of Applied Earth Observation and Geoinformation (IF: 7.6)
  - Computers and Electronics in Agriculture (IF: 7.7)
  - Geomatica
- **Professional Memberships**
  - LI-COR-Carbon Dew Community for Climate Solutions (Feb 2023 – Present)
  - GRSS Instrumentation and Future Technologies Technical Committee (IFT-TC) & Geoscience Spaceborne Imaging Spectroscopy (GSIS) (Sep 2022 – Present)
  - Pan-European Network for Green Deal Agriculture and Forestry Earth Observation Science (PANGEOS COST Action)
- **Recent Academic Training:**
  - **IGARSS 2024 Summer School** – Sponsored by IEEE GRSS, Athens, Greece, July 4–6, 2024
  - **UAVs in Precision Agriculture** – Online course by ITC, University of Twente

## Publications & Presentations

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- Abdelmajeed, A. Y. A., et al. (2025). *Assessing SIF-GPP Relationships in Peatlands: Temporal Insights for FLEX Mission Validation*. Egu25. <https://doi.org/10.5194/egusphere-egu25-18025>
- Antala, M., **Abdelmajeed, A. Y. A., et al.** (2024). *Photosynthetic Responses of Peat Moss and Bog Cranberry to Spring Warming*. *Plants*, 13(22), 3246. <https://doi.org/10.3390/plants13223246>
- Abdelmajeed, A. Y. A., et al. (2024). *Diurnal Variations of Solar-Induced Fluorescence in a Heterogeneous Peatland Ecosystem*. Egu24. <https://doi.org/10.5194/EGUSPHERE-EGU24-20509>
- Abdelmajeed, A. Y. A. & Juszczak, R. (2024). *Challenges and Limitations of Remote Sensing in Northern Peatlands*. *Remote Sensing*, 16(3), 591. <https://doi.org/10.3390/rs16030591>
- Abdelmajeed, A. Y. A., et al. (2023). *Cloud-Based Remote Sensing for Wetland Monitoring—A Review*. *Remote Sensing*, 15(6), 1660. <https://doi.org/10.3390/rs15061660>
- **Poster:**
  - Challenges of Linking EC Data (GPP) to Hyperspectral Data (SIF): *A Case Study in Rzecin Peatland, Poland* – Presented at Mountain Research Station, University of Colorado, Boulder, CO, USA
  - The capabilities and limitations of cloud-based Farm Management Information Systems (FMIS) for UAV-based imaging – presented in training led by European Space Agency 21-25 November 2022 – at the Institute of Advanced Studies Kőszeg (iASK), Kőszeg, Hungary
  - Does the spectrum signature change according to the altitude?– presented in training led by European Space Agency 21-25 November 2022 – at the Institute of Advanced Studies Kőszeg (iASK), Kőszeg, Hungary

## Academic Honors & Awards

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- Best Proposal for Earth Observation – IEEE, Greece, 2024

- PhD Scholarship, Poznan University of Life Science (2021 – Present)
- Rector’s Scholarship for the Best Students, Poznan University of Life Science (Oct 2020 – Jun 2021)
- MSc Scholarship (Partially Funded by the EU, 2019 – 2021)

## Technical Skills

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- **Research & Analysis:** Photogrammetry (Pix4D, Agisoft Metashape, Drone Deploy, WebODM), GIS (ILWIS, ArcGIS Pro, QGIS)
- **Programming & Data Analysis:** principles of R, Python, MATLAB, Power BI
- **Software:** Autodesk (AutoCAD, Revit, Recap), Adobe Photoshop

## Languages

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- Arabic (Native)
- English (Advanced)
- Polish (Beginner)

## References

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- References Available Upon Request