Adam Johns

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I am a Geospatial Data Analyst with extensive experience in managing, manipulating, and visualising large geophysical and geospatial datasets for both client-facing and internal purposes. I have developed and refined numerous data processes and techniques to efficiently analyse and present complex spatial data. My expertise includes creating innovative workflows, conducting detailed spatial analysis, and delivering high-quality, data-driven insights. With a strong background in energy storage and renewable geospatial sectors, I am proficient in using ArcGIS, QGIS, Matlab, Python, SQL, and other key geospatial software. I excel at producing detailed visualisations, interactive dashboards, and professional deliverables that enable clear communication of complex data insights.

Key Skills

- **Geospatial Analysis & Mapping:** Expertise in ArcGIS, QGIS, Global Mapper, and AutoCAD.
- **Programming & Automation:** Competent in Python (GDAL), Matlab and SQL.
- **Data Management & Visualisation:** Skilled in managing large datasets and creating interactive maps.

Career Summary

GIS Data Analyst / *RheEnergise Ltd /* APR 2021 – Present

Currently working as a GIS Data Analyst within the renewable energy sector for an innovative energy storage company, working out of London and Canada. I am the sole GIS analyst at the company and serve as a project lead for a bespoke Innovate UK co-location project. My responsibilities include conducting extensive feasibility assessments, creating and presenting customised client data analytics, and developing advanced GIS-based models for renewable energy projects. I created the first automated site screening workflow at the company, enabling the identification of prospective sites for our innovative HD Hydro systems, all within ArcGIS and Python. Additionally, I produced the first-ever feasibility study for a client based in Chile, an interdisciplinary report that required extensive collaboration with the engineering and management teams. Utilising software such as ArcGIS, QGIS and Python, alongside traditional GIS techniques, I have played a key role in delivering data insights into both small-scale and international projects. I am also responsible for producing detailed geospatial models, comprehensive reports, and spatial analysis to support project development. I have collaborated closely with multidisciplinary teams within the VFAST consortium to deliver well-engineered and innovative solutions tailored to the specific needs of our clients. Over my time at RheEnergise, I have grown into a leadership role, driving key decisions in project design and chairing meetings as the lead GIS Analyst, directly interfacing with clients.

GIS Analyst & Data Processor/ *AG SURVEYS Ltd /* JAN 2021 – APR 2023

- Senior Data Analyst for UK Coastal Monitoring Programme projects, focusing on obtaining, manipulating, and visualising geospatial data for scientific and flood prevention analysis. Utilised QGIS, Python (GDAL), Matlab, QGIS, and ArcGIS to create data models, visualisations, and reports for the Environmental Agency.

- Established an automated GIS data processing workflow using Python, Matlab, and ArcGIS. Managed geo-database visualisations, geospatial analytics, vector and raster transformations, analytical reports, and database management with GitHub.

- Assisted in developing a GIS technical specification for the Welsh Coastal Monitoring Centre, contributing to data processing and management methodologies, as well as specifications for LiDAR and topographical data deliverables.

HYDROGRAPHIC SURVEYOR / *EGS INTERNATIONAL (UK) /* AUG 2019 – JAN 2021

- Primary data processor on a six-week project in the Falkland Islands, independently managing geospatial data in Caris and ArcGIS. Produced visualisations in Matlab/ArcGIS, served as the primary client contact, and delivered data now used in regional nautical charts and online geo-databases.

- Data processor on a large-scale MBES, SSS, and geophysical survey in the USA. Processed bathymetric and backscatter data using Caris and Fledermaus, created deliverables in Global Mapper and ArcGIS, produced GIS track plots, and assisted in quality control of all data deliverables.

- Created ArcGIS derived cartographic final deliverables. Multi layered maps were created from the use of MBES, LiDAR and side scan sonar data.

Education

MSc (Hons) Hydrography, University of Plymouth. Merit.

- Participation in an interdisciplinary data investigation into the feasibility of aquaculture and sustainable energy development, within the vicinity of Plymouth Sound.

- Assisted in a team based hydrographical tender creation, requiring the production of a MBES survey proposal and follow up survey report. The project had both independent and team-based aspects**.**

- Strong communication skills, both verbal and written, developed from participation in presentations, conferences and group activities.

BSc (Hons) Oceanography and Coastal Processes, University of Plymouth. 2:1.

- Calculating accurate statistics of ocean dynamics, using data manipulation and processing techniques in Matlab and Excel. Large quantities of data were analysed and processed.

- Modelling tsunamis from the use of numerical databases and producing reports and analysis of the outputted results.

Truro College: Geography (B), Geology (B) and Photography (B), Maths – AS Level (B)

Further Training

- **QA Microsoft DAL4 Data Analysis & Power BI (Ongoing).**
- Fundamentals of GIS | UC Davis (September 2020).
- Python Data Structures | University of Michigan (March 2020).

Volunteering

- **Surfers Against Sewage Ambassador (SAS).**

Present

Engaged in beach cleans and community outreach.

Interests: Surfing, Photography, Bouldering, Cooking & Music.

Full UK driving licence.

References: Available on request.