

Curriculum vitae - Alexander Ferrier

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Highlights

- 11 years experience across four continents
- Multifaceted experience working on marine research projects
- Experienced in relationship development for marine based projects
- Preparation of project environmental assessment documents and technical reports
- Experienced leader for marine projects, including dive surveys and the auditing of marine based environmental compliance monitoring
- Experienced in data analysis, impact assessment and preparation of technical reports
- Highly proficient in statistically robust survey design and statistical analysis using Primer, SPSS and R

Summary

Professional and dedicated individual with an excellent track record of leading marine surveys which encompassed survey design, implementation, environmental assessments, environmental construction monitoring, bathymetric mapping and long-term ecosystem health monitoring. 10 years experience in marine ecology, environmental management and research through projects and employment in the UK, Asia, Australia, Middle East, Caribbean and the Western Pacific.

Qualifications

- M.Sc. Marine Biology (Distinction), Bangor University, Wales
- B.Sc. (Hons) Marine & Freshwater Biology, University of Hull, Hull, East Yorkshire, England
- HSE Scuba (Part IV)
- HSE First Aid at Work
- PADI Master Scuba Diver Trainer
- PADI Emergency Oxygen Provider
- EFR Instructor: CPR/AED/First Aid – Infant/Child/Adult
- Reef Check Eco Diver Trainer
- RYA Powerboat Level 2

October 2019 – Present

Coral Reef Research Foundation

Research Biologist/Mapping Specialist

- Planning and implementation of bathymetric surveys around Palau.
- Maintenance and calibration of multibeam sonar equipment.
- Data management and quality control of data.
- Development of final maps and other products through the use of Quick Terrain Modeler and ArcGIS.

November 2018 – October 2019

Independent Consultant

IDE Consultants (Dubai, United Arab Emirates)

- Survey lead for underwater habitat mapping, benthic infauna and coralsurveys.
- Statistical analysis of survey data, as well as preparation of reports.
- Maintenance and management of marine water quality, oceanographic and meteorological monitoring stations.

Emirates Marine Environmental Group (Abu Dhabi & Dubai, United Arab Emirates)

- Providing expertise for translocation of coral colonies as mitigation for marine construction projects, as well as dive survey supervision.
- Development of nesting sea turtle monitoring programme.

Reef Check Coordinator (Dubai, United Arab Emirates)

- In conjunction with local partners, currently attempting to re-establish Reef Check within the region.

- Development of Reef Check Courses and community outreach.

September 2017 – September 2018

Bangor University, Wales

MSc Marine Biology Student

Skills Developed

- Survey design and statistical analysis.
- Fish population dynamics for fisheries management.
- Taxonomic identification for temperate and tropical ecosystem species with a focus on benthic invertebrates.
- Aquaculture hatchery design and implementation.
- Critical review of existing literature for the development of final research project.

January 2014 – January 2017

Dar Al-Handasah Consultants (Shair and Partners, UK)

Marine Team Leader

Projects and Responsibilities:

New Port Project, Qatar Economic Zone 3 and Emiri Naval Forces Base (Umm Sa'id, Qatar)

- Survey lead for marine monitoring campaigns including, marine water quality, benthic infauna, coral, seagrass and sediment quality.
- Dive supervisor for marine surveys including, coral, seagrass and macroalgae.
- Introduction of safe diving practices and associated training.
- Managing and inspecting compliance monitoring around dredging operations during construction phase.
- Maintenance and management of marine water quality, oceanographic and meteorological monitoring stations.
- Data analysis, impact assessment and report writing regarding marine water quality, ecology and physical oceanography.
- Preparation of monthly reports for inspection and verification monitoring.
- Laboratory lead for technical issues and QA/QC of results.
- Training and mentoring of monitoring officers.

Katara Hills (Doha, Qatar)

- Survey lead for underwater habitat mapping, seagrass identification and marine water quality.
- Development of marine monitoring scope of works including the use of Arc GIS to identify survey locations.
- Analysis of marine water and dewatering effluent quality data and subsequent report.

Red Sea – Dead Sea Water Conveyance Project (Aqaba, Jordan)

- Data analysis for the Red Sea intake position feasibility study.
- Marine water quality analysis.
- Assisted with Ecology study Scope of Works.

Doha Old Port Redevelopment (Doha, Qatar)

- Provision of environmental permit application technical supporting document for onsite environmental monitoring.

2013 -2014

Juara Turtle Project, Pulau Tioman, Malaysia

Research Officer

- Studying the effects of artificial light pollution on the near shore distribution of hatchling green turtles.
- Conducting coral reef surveys utilising the reef check methodology and training local staff to conduct these surveys.
- Assisting with hatchery management.
- Providing conservation workshops for visiting schools and universities.

2012 -2013**BatuBatu Resort, Pulau Tengah, Johor, Malaysia****Resident Marine Biologist & Dive Instructor**

- Development and implementation of Standard Operational Procedures for baseline nesting turtle population survey and MPA development in collaboration with the Malaysian Fisheries Department and Marine Park Department.
- Development of dive centre into a PADI certified facility, ensuring the dive centre and dive boats were in compliance with PADI standards.
- Facility management of the dive centre including maintenance of compressor and dive boats.
- Conducted reef surveys and setting up transects on previously undocumented reefs.
- Conducted coral spawning surveys in tandem with Reef Check Malaysia.

2011-2012**Pendoley Environmental, Perth, Western Australia****Field Technician**

- Data collection of returning migrant sea turtle populations on large scale infrastructure projects
- Tagging of new recruits to population.
- Nest marking and excavation, including data collection with regard to clutch size and hatchling success rate.
- Offshore light spill surveys.

2009 – 2011**Dubai Aquarium & Underwater Zoo****Aquarist**

- Turn-key operations for live food culture.
- Cultures included Artemia, Rotifers, Mysid Shrimp, Crickets and Wingless Fruit Flies
- Evening shift supervisor.
- Maintenance for exhibits including cleaning, overhauling and LSS maintenance.
- Diving in the main tank to perform hand feeds for Sharks and Stingrays, as well as species-specific feeds for Sand Tiger, Hammerhead and Silver Tip Sharks.
- Acquisition of Import Permits.
- General husbandry of terrestrial animals including Small Clawed Otters, Nutria, Gentoo Penguins and Humboldt Penguins.

2004**Dr. Nicholas J Pilcher, Marine Research Foundation, Sabah, Malaysia,****Co-Chair, IUCN/SSC Marine Turtle Specialist Group.**

First pre-graduate to be accepted for laboratory and fieldwork experience under the personal supervision of Dr. Pilcher, primarily for American Cancer Research Foundation. Work included daily diving for the harvest of live coral, freezing, bagging, labelling, packing for taxonomy purposes and subsequent air freight to the American Association for Cancer Research.