

Adam Shand

ENVIRONMENTAL DATA ANALYST

Townsville, Australia

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Employment

Healthy Waters Partnership for the Dry Tropics (HWPDT)

Townsville, Australia

ENVIRONMENTAL DATA ANALYST

Apr. 2022 - Present

- Collaborated with industry, government, NGOs, and community stakeholders to deliver environmental monitoring reports.
- Implemented the ANZECC (2000) and Environmental Protection Policy water quality guidelines for a range of monitoring projects.
- Analysed multiple environmental indicators including climate data, water quality data, vegetation surveys, and fauna surveys.
- Developed automated workflows for tasks such as data cleaning, manipulation, analysis, and visualisation.
- Worked extensively with spatial data (rasters, vectors), flat files (spreadsheets, Excel), and 3-dimensional data (topography, hypercubes).
- Engaged in public outreach and communication by delivering presentations at events, lecturing at JCU, and running stalls at community days.
- Extensively used a range of technical programs including Python, R, SQL, Tableau, QGIS, ArcGIS, and the Microsoft suite.

Griffith University

Gold Coast, Australia

RESEARCH ASSISTANT

Nov. 2018 - Jan 2022

- Developed and applied tools for monitoring and resource assessment in marine and estuarine environments.
- Utilised advanced data analysis, data management, coding, and automation techniques for multiple scientific publications.
- Designed and presented complex technical and scientific reports to collaborators and stakeholders.
- Served as a project manager for multiple desktop and in-field studies.
- Supervised and provided guidance to a team of 7 undergraduate students and interns.

Education and Awards

Griffith University

Gold Coast, Australia

BSC (HONS) IN MARINE SCIENCE

Feb. 2020 - Nov. 2020

- Recipient of the Academic Excellence Award (2020).
- First Class Honours with Distinction (GPA 7.0/7.0).
- Honours research project was to develop an automated image recognition and identification system for estuarine fish species.
- Studied units including Scientific Data Analysis, Scientific Report Writing, and Research Planning

Griffith University

Gold Coast, Australia

BMarSc IN MARINE ECOLOGY

Feb. 2017 - Nov. 2019

- Recipient of the Academic Excellence Award (2017, 2018, 2019).
- Graduate with Distinction (GPA 6.5/7.0).
- Mentor for the Griffith University Science Stream (2019).
- Capstone project was to assess the impact of soft coral allelopathy on surrounding hard coral cover.
- Studied units including Applied Data Science, Environmental Chemistry, Ecotoxicology, and Estuarine Ecology.

Qualifications

2025	Fire Extinguisher Training	Port of Townsville
2024	Carbon Literacy Standard	ThinkZero
2023	HLTAID011 - Provide First Aid	ABC First Aid
2023	HLTAID010 - Provide basic emergency life support	ABC First Aid
2023	HLTAID009 - Provide cardiopulmonary resuscitation	ABC First Aid
2023	Aquatic Environment Monitoring Skills	JCU, TropWater
2023	Drone Pilot (RPA Operator Accreditation)	CASA
2018	Lifetime Member of the Golden Key International Honour Society	Griffith University
2017	Recreational Boat License	DTMR, QLD
2016	Advanced Open Water Diver	PADI
2015	Certificate I in Maritime Operations (MAR10313)	TAFE, NSW
2015	Class C and Class RE Manual Drivers License	DTMR, QLD