Adam Shand
ENVIRONMENTAL DATA ANALYST
Townsville, Australia

✉ adamshand22@gmail.com | 🏠 adamshand22.com | 📷 add-am

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 undergradutate 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 indentification 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*