

ALICE M. PIDD

CURRICULUM VITAE

Sippy Downs, Queensland
University of the Sunshine Coast

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RESEARCH INTERESTS

I am broadly interested in all aspects of global sustainability and the persistence of species, particularly in the efficacy of current ocean management in the face of climate impacts. I am current undertaking a **PhD** at the University of the Sunshine Coast to identify **climate refugia** within Australia's current **marine protected areas**, to find corridors of **climate connectivity**, and to explore alternative marine protected areas that are **robust to climate impacts** over the long-term.

Prior to this, my most recent role within QLD Fisheries focused on developing qualitative and quantitative **Ecological Risk Assessments** for the major fisheries along the QLD East coast. I have authored several chapters for the **National Status of Australian Fish Stocks** process, and was an active member of the **Scientific Advisory Group** in developing Stock Assessments for Black and White Teatfish in QLD.

I am interested in **post-doc** opportunities abroad, within the field of **quantitative marine ecology**, particularly to continue exploring **climate-smart ocean management** through global collaboration networks to achieve **sustainability** on all ecological fronts.

EDUCATION

University of the Sunshine Coast

Doctor of Philosophy – Scales Lab; Ocean Futures Research Cluster 2022–2025

Climate-smart marine protected area networks in Australia.

Supervisory team: A/Prof. Kylie L. Scales (UniSC), Prof. David S. Schoeman (UniSC),
Prof. Anthony J. Richardson (UQ)

The University of Technology, Sydney

BSc Marine Biology – GPA 5.54, WAM 73.17 2014

Undergraduate Research Project: *Independent and combined effects of temperature and salinity on an estuarine species, Enoplosus armatus, endemic to Australia: Implications of a changing climate.*

Project Advisor: Prof. David Booth

INDUSTRY EXPERIENCE

Fisheries Resource Officer – Ecological Risk Assessments 2020–2022

Queensland Department of Agriculture and Fisheries

Supervisors: Dr. Ian Jacobsen, Dr. Peter Kind

Senior Fisheries Technician – Research 2018–2020

New South Wales Department Of Primary Industries (Fisheries)

Supervisors: Dr. John Stewart, Dr. Daniel Johnson

Fisheries Technician – Port Monitoring 2015–2018

New South Wales Department Of Primary Industries (Fisheries)

Supervisors: Dr. John Stewart, Anne-Marie Hegarty, Caitlin Young

Research Assistant – Shark mitigation technology 2016–2018

University of Technology, Sydney

Supervisor: Prof. William Gladstone

Laboratory Assistant
National Measurement Institute, Sydney
Supervisor: Gavin Stevenson

2015–2016

Laboratory and Field Assistant
University of Technology, Sydney
Supervisor: Dr. Antonia Bramwell

2013–2015

PUBLICATIONS

Peer-reviewed Journal Articles

1. J Stewart, **A Pidd**, A. M Fowler, W Sumpton. (2020). [Latitudinal variation in growth rates and limited movement patterns revealed for east-coast snapper *Chrysophrys auratus* through long-term cooperative-tagging programs](#). *Marine and Freshwater Research*, **71**(6) 653-661, doi: <https://doi.org/10.1071/MF19138>

Government Technical Reports

11. **A Pidd**, & I Jacobsen. (2021). [Queensland Sea Cucumber Fishery \(East Coast\) Level 1 Ecological Risk Assessment](#). Technical Report, *Queensland Department of Agriculture and Fisheries, Brisbane, Australia*.
10. **A Pidd**, & I Jacobsen. (2021). [Queensland Sea Cucumber Fishery \(East Coast\) Scoping Study](#). Technical Report, *Queensland Department of Agriculture and Fisheries, Brisbane, Australia*.
9. **A Pidd**, I Jacobsen, L. Walton, A. Lawson. (2021). [East Coast Inshore Large Mesh Net Fishery - Level 2 Ecological Risk Assessment \[Target Byproduct Species\]](#). Technical Report, *Queensland Department of Agriculture and Fisheries, Brisbane, Australia*.
8. **A Pidd**, J Stewart, P Lewis, G Johnson, L Litherland. [Status of Australian Fish Stocks: Spotted Mackerel, *Scomberomorus munroi* \(2020\)](#). *Fisheries Research and Development Corporation, Canberra*.
7. **A Pidd**, J Hughes, P Lewis, G Johnson, T Saunders. [Status of Australian Fish Stocks: School Mackerel, *Scomberomorus queenslandicus* \(2020\)](#). *Fisheries Research and Development Corporation, Canberra*.
6. I Jacobsen, **A Pidd**, L Walton. (2021). [Ocean Beach Fishery Level 2 Ecological Risk Assessment](#). Technical Report, *Queensland Department of Agriculture and Fisheries, Brisbane, Australia*.
5. I Jacobsen, **A Pidd**, L Walton. (2021). [Tunnel Net Fishery Level 2 Ecological Risk Assessment](#). Technical Report, *Queensland Department of Agriculture and Fisheries, Brisbane, Australia*.
4. L Walton, I Jacobsen, **A Pidd**, A Lawson. (2021). [Gulf of Carpentaria Inshore Fishery Level 2 Ecological Risk Assessment \[Target Byproduct Species\]](#). Technical Report, *Queensland Department of Agriculture and Fisheries, Brisbane, Australia*.
3. T Saunders, **A Pidd**, F Trinnie, S Newman. [Status of Australian Fish Stocks: Black Jewfish, *Protonibea diacanthus* \(2020\)](#). *Fisheries Research and Development Corporation, Canberra*.
2. J Stewart, **A Pidd**, R Duffy, [Status of Australian Fish Stocks: Sea Mullet, *Mugil cephalus* \(2020\)](#). *Fisheries Research and Development Corporation, Canberra*.
1. M Braccini, **A Pidd**, M Usher, V Peddemors, [Status of Australian Fish Stocks: Sandbar Shark, *Carcharhinus plumbeus* \(2020\)](#). *Fisheries Research and Development Corporation, Canberra*.

CONFERENCES, PRESENTATIONS, AND TEACHING

Conferences

Australian Marine Sciences Association (Cairns, Australia) - <i>Poster</i>	2022
ICES Annual Science Conference (Gateshead, UK) - <i>Online Presentation</i>	2024
Australian Marine Sciences Association (Hobart, Australia) - <i>Presentation</i>	2024
IMCC7 (Cape Town, South Africa) - <i>Presentation</i>	2024

Presentations

3-Minute Thesis (University of the Sunshine Coast)	2024
<i>"Choose your future!"</i>	
Animal Form, Function, and Evolution (University of the Sunshine Coast)	2023
<i>"Biodiversity redistribution under climate change: Implications for marine protected areas"</i>	
Animal Ecology Seminar (University of the Sunshine Coast)	2023
<i>"Climate-smart marine protected areas in Australia"</i>	

Teaching

Stats With Teeth: Understanding Ecological Data (University of the Sunshine Coast)	2022–Present
Teaching Assistant, relief lecturer	
Fish Dissection Laboratory Workshops (NSW DPI Fisheries)	2016
Workshop design, presentation, dissections, and engagement in citizen science for schools	
Principles of Scientific Practice (University of Technology, Sydney)	2015
Primary contact for cohort; Demonstrator for tutorial and practical sessions	

Student supervision

Co-supervisor – Student Research Project (University of the Sunshine Coast)	2024
<i>"Title of project"</i>	

ADDITIONAL TRAINING AND RESEARCH SKILLS

Short Courses and Qualifications

Introduction to R Workshop (University of Queensland)	2021
Advanced Data Wrangling and Spatial Analysis R Workshop (University of Queensland)	2021
General Purpose Hand (Deckhand) Licence	2019

Research Skills

Data-based

Data munging and visualisation for Earth System Models (R packages: *purrr*, *furrr*, *dplyr*, *terra*, *ncdf4*, *tmap*, *Shiny*)
Climate metric computation (R packages: *hotrstuff*, *VoCC*, *heatwaver*)
Spatial prioritisation (R packages: *spatialplanr*, *prioritizr*)

Field and Laboratory

Fish ageing and otolith chemistry
Teleost, *elasmobranch*, and *portunid* identification - field and laboratory
BRUVS deployment, retrieval, and analysis of video data
Database compilation, cleaning, validation, and management
Biological data collection: *Elasmobranchs*, *Portunids*, *Molluscs*, commercially important *Teleosts*
Offshore artificial reef monitoring
Boat-based field work: planning, organisation, vessel maintenance
Data visualisation and analysis, AgeLength Key compilation in R
Bull shark capture and tagging
PFAS contamination tissue sampling
Electrofishing and freshwater species identification

REFERENCES

A/Prof. Kylie Scales
University of the Sunshine Coast, Australia

kcales@usc.edu.au

Prof. David Schoeman
University of the Sunshine Coast, Australia

dschoema@usc.edu.au

Dr. John Stewart
NSW Department of Primary Industries, Fisheries

John.Stewart@dpi.nsw.gov.au (02) 9435 4668

Dr. Ian Jacobsen
QLD Department of Agriculture and Fisheries

Ian.Jacobsen@daf.qld.gov.au (07) 3087 8038

Prof. William Gladstone
The University of Technology, Sydney

William.Gladstone@uts.edu.au (02) 9514 8272