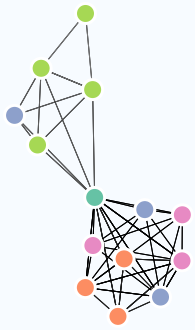
FREDDIE HEATHER

I am currently a PhD student at the Institute for Marine and Antarctic Studies in Hobart, AU. My PhD is looking at macroecological patterns of the relationship between animal body size and abundance in reef ecosystems.



[Download a PDF of this CV]

EDUCATION

Current | 2017

PhD. Candidate, Quantitative Marine Science

Institute for Marine and Antarctic Studies (IMAS), University of Tasmania

Hobart, AUS

- Thesis: Human impacts on reef size spectra

2014 | 2010

MBiolSci, Biological Sciences with a Year Abroad (University of Western Australia)

University of Sheffield

Sheffield, UK

- Publication: Heather et al. (2018) Using an integral projection model to assess the effect of temperature on the growth of gilthead seabream Sparus aurata
- 1st Class with Honours

2010 | 2008

A-levels

Woking College

Surrey, UK

- Biology (A), Mathematics (A), Physics (A), Chemistry (A)

INDUSTRY EXPERIENCE

Current | 2020

Software engineer (ShinyR)

The Nature Research Centre (Lithuania)

Remote

- Development of four ShinyR apps for fish stock assessment

Current | 2019

Data scientist

The Nature Research Centre (Lithuania)

Remote

- Database management (Coversion of an Access database to .csv and R)

2017 | 2017

Statistical Analysis

Institute for Marine and Antarctic Studies (IMAS)

Hobart, AUS

- Statisitcal analysis of the environmental impact of salmon farming

CONTACT

freddieheather@gmail.com

F_J_Heather

github.com/freddiejh

SPECIFIC SKILLS

- R
- Tidyverse
- lm/lme4
- ShinyR

*Made with the R package **pagedown**.*

The source code is available on github.com/freddiejh/cv.

Last updated on 2020-12-17.

RESEARCH EXPERIENCE

2017 | 2017

Research Assistant
University of Sheffield — Sheffield, UK
- Parameterisation of a Dynamic Energy Budget (DEB) model

2017 | 2016

Research Technician
University of Sheffield — Sheffield, UK
- Database management (Coversion of an Access database to .csv and R)

2017 | 2016

Research Technician
University of Cambridge — Cambridge, UK
- Data input

2016 | 2015

Research Assistant
University of Cambridge — Cambridge, UK
- Video analysis of fish behaviour

TEACHING EXPERIENCE

Current | 2019

Teaching Assistant
Institute for Marine and Antarctic Studies (IMAS), University of Tasmania — Hobart, AUS
- Marine resource management and conservation

2019 | 2018

Teaching Assistant
Institute for Marine and Antarctic Studies (IMAS), University of Tasmania — Hobart, AUS
- Quantitative Methods in Biology

2019 | 2018

Academic Tutor
Riawunna Centre for Aboriginal Education — Hobart, AUS
- Programming fundamentals
- Data handling and statistics

I am passionate about teaching, and have taken on multiple undergraduate teaching roles throughout my PhD.

SELECTED PUBLICATIONS, POSTERS, AND TALKS

2020

Globally consistent reef size spectra integrating fishes and invertebrates
Accepted: Ecology Letters

2020 **Taxonomic composition of mobile epifaunal invertebrate assemblages on diverse benthic microhabitats from temperate to tropical reefs**

Marine Ecology Progress Series (MEPS)

2018 **Using an integral projection model to assess the effect of temperature on the growth of gilthead seabream Sparus aurata**

PLoS One