

# Madeleine A Holder

## Qualifications / Affiliations

MSci Biology 2.1 (Hons)  
University of Bristol, Bristol  
September 2019 – June 2023

## Year of Birth

2001

## Nationality

British

## Languages

English

## Contact

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## Current Position at CWA

Madeleine Holder joined the Food & Agricultural Commodities Department as a Food Scientist in March 2024, following her graduation from the University of Bristol with 2.1 MSci (Hons) in Biology, where she specialised in agricultural sciences, ecology, marine biology, and conservation.

Madeleine has a broad background in biological sciences, including ecology, conservation, marine biology, microbiological studies, molecular biology, sustainable food production and overall interactions between animals, microbes, and plants. She has wider knowledge through her biology degree of diversity, evolution, and functions of living organisms, with specific knowledge of data analysis using coding software and laboratory biological skills.

Madeleine is currently in the early stages of her career with CWA, training in house with highly experienced consultants to develop her skills in assessing instances of damage and loss of food and agricultural commodities, providing expert advice on a range of food, feed and other dry agricultural commodities.

## Summary of Previous Work Experience

**June 2023 – November 2023**      **University of Brighton, Brighton**  
Research Assistant

Worked with a PhD student on their multidisciplinary ecology project, focused on anthropogenic contamination in seagrass beds. Assisted in all aspects of laboratory work. Project involved an assessment of sites within study area with a range of sediment quality parameters and comparative ecological health to enable anthropogenic pollution indexation and multivariate analysis to understand parameter relationships.

During October/November 2023, additionally worked within a microbiology laboratory with University of Brighton on a trace element bacteriophage study to undertake preliminary analysis, using aseptic techniques, and DNA extraction and analysis of water samples.

**September 2019 – June 2023**      **University of Bristol, Bristol**  
MSci Student

Undergraduate background between September 2019 and June 2022 – student projects included numerous field work studies, namely how light affects woodlice (both marine and terrestrial) behaviour, literature review working on how marine microorganisms are affected by sea climate changes, agricultural work in maize crop fields and how bordering hedges allow insect diversity which benefits the biodiversity locally.

Between September 2022 and June 2023, specialised in marine biology, focusing on how artificial light at night (ALAN) affects anemonefish behaviour in French Polynesia. Work involved using Behavioural Observation Research Interactive Software (BORIS) to analysis the fish behaviour and how they react when exposed to artificial light sources in their natural habitat.

**September 2017 – June 2019**      **College of Richard Collyer, Horsham**  
A Levels Student

Biology – A, Chemistry – A, English Literature – B

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