



# Margot Mason

## Project Engineer | Environmental Engineering

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Margot is a Project Engineer at the UNSW Water Research Laboratory. She completed a Bachelor of Science in Hydrologic Sciences and Policy at the University of California Santa Barbara in 2020, and a Masters of Water Engineering at UNSW in 2022. This has given her a strong background in ecology and environmental processes, in addition to technical engineering skills. As part of her studies she completed a

She now works primarily in numerical modelling using the RMA modelling suite, working on projects such as modelling pollutant transport in 11 NSW estuaries, and modelling erosion in the Lake Illawarra Entrance channel. She has also worked in Australian Carbon Markets and has remote sensing and drone experience.

### Qualifications

MEngSci (Water Engineering), UNSW, 2022

BS with Highest Honours (Hydrological Sciences and Policy), UC Santa Barbara, 2020

### Professional history

2022-Current:

- Estuarine hydrodynamics
- Dispersion
- Remote sensing and GIS
- Wetland processes
- Restoration
- Synthetic turf
- Blue carbon
- Groundwater

### Summary of relevant experience

#### Numerical modelling

Estuarine hydrodynamic and water quality modelling in RMA modelling suite

Sewage overflow impacts on NSW oyster harvest areas

Theoretical dispersion for saline intrusion

Modelling erosion in Lake Illawarra Entrance Channel

#### Remote Sensing

Drone photogrammetry

#### Wetland and riparian hydrology and restoration

Upland peat swamps hydrologic monitoring and modelling

Santa Clara River Cienega monitoring and restoration

#### Literature review

Hydrologic impacts of synthetic turf in NSW