



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 Master's thesis on hydrologic modelling of upland swamps and the impact of longwall mining.

Margot is interested in environmental engineering and has completed data collection fieldwork and subsequent modelling of several riparian, estuarine and wetland systems. She has worked in Australian Carbon Markets in both blue and green carbon, and also has remote sensing experience, including experience with drone mapping using photogrammetry and the use of publicly available satellite data.

Qualifications

BS with Highest Honours (Hydrological Sciences and Policy), UC Santa Barbara, 2020
MEngSci (Water Engineering), UNSW, 2022

Professional history

2022-Current: Project Engineer, UNSW WRL
2021-2022: Geospatial Scientist, Australian Integrated Carbon
2018-2020: Undergraduate Researcher, UCSB RiVRLab

Expertise

- Environmental engineering
- Numerical modelling
- Remote sensing and GIS
- Wetland processes
- Restoration
- Synthetic turf
- Blue carbon
- Groundwater

Summary of relevant experience

Wetland and riparian hydrology and restoration

Upland peat swamps hydrological monitoring and modelling

Santa Clara River Cienega monitoring and restoration

Numerical modelling

Upland peat swamps numerical modelling

Sewage overflow impacts on oyster harvest areas in NSW estuaries

Literature review

Hydrologic impacts of synthetic turf in NSW

Remote Sensing

Modelling for HIR carbon projects

Vegetation mapping using drone photogrammetry