

Maia Williams

Spatial Data Analyst

CONTACT

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ONLINE

[LinkedIn](#)

[Personal website](#)

[OpenStreetMap](#)

[Wikipedia and Wikidata](#)

EDUCATION

Master of Landscape Architecture

University of Western Australia
2017 – 2020

Master of Science (Geospatial Technologies)

Universidade Nova de Lisboa and
Westfälische Wilhelms-Universität Münster
2009 – 2011

Bachelor of Engineering (Environmental) and Bachelor of Science (Physics)

University of Western Australia
2000 – 2006

EXPERTISE

QGIS
ArcGIS Desktop | Server | Online
GPS devices | Fulcrum | QField

Basic SQL for spatial
Basic PostgreSQL/PostGIS
Basic Python

AutoCAD
InDesign | Illustrator | Photoshop

ABS TableBuilder Pro

Cross-disciplinary communication
Scientific writing

PROFILE

I am experienced in spatial data analysis and spatial thinking, particularly within multidisciplinary contexts. I am technically proficient in data management, analysis and visualisation as well as being skilled in spatial concept communication. I enjoy the diversity of opportunities spatial data work affords me and purposefully cultivate a broad skill set. I thrive on continual learning, teaching and sharing, and actively participate in the Perth geospatial community.

PROFESSIONAL EXPERIENCE

Senior GIS Analyst

Mammoth Geospatial | January 2022 – present

Data analysis, data collation and schema design, map template design and GIS training material development. Working primarily with QGIS.

Freelance Spatial Data Specialist

Various | August 2017 – present

Data collation and analysis, project setup, spatial application advice and tailored GIS training.

GIS Officer

Yilka Heritage and Land Care | August 2017 – present

Managing the spatial data repository, mapping, data analysis, and Fulcrum app setup. Working with QGIS, Sentinel Hub, Fulcrum, GPS, ArcGIS and ArcGISOnline.

Guest Studio Tutor

UWA – School of Design | February 2020 – present

Regular guest tutoring in landscape architecture studios. Demonstrating relevant spatial data manipulation skills, and providing workflow documentation.

Spatial Data Analyst/Designer

Syrinx | June 2018 – March 2022

Data analysis, mapping, field data collection and spatial application design. Worked with designers, engineers, software developers and field survey teams. Worked in QGIS, AutoCAD, Adobe suite and GitHub.

GIS Officer

Central Desert Native Title Services Group | June 2014 – July 2017

GIS Officer

Department of Water – Spatial Science and GIS Section | October 2013 – May 2014

Geospatial Systems Officer

Department of Planning | September 2012 – June 2013

GIS Project Officer

State Heritage Office | May 2012 – September 2012

Australian Youth Ambassador for Development (AYAD) Volunteer Researcher

Institute of Geoecology, Mongolian Academy of Sciences | 2008 – 2009

Environmental Officer

Department of Water – Salinity Section | 2007 – 2008

VOLUNTEERING

Geogeeks

<https://geogeeks.org> | 2021 – present

Co-organiser of fortnightly open geospatial hack nights, speaker events and mapping days.

2021 FOSS4G SotM Oceania - Perth Hub

<https://foss4g-perth.org> | 2021

Co-organiser of the two day FOSS4G SotM Oceania conference held in Perth, November 2021.

AWARDS

UWA School of Design studio prizes | 2017 and 2019

AILA Festival student representative | 2018

Erasmus Mundus scholarship | 2009 – 2011

Australasian Institute of Mining and Metallurgy Scholarship | 2000 – 2005

REFEREES

John Bryant

Principal Consultant

Mammoth Geospatial

john@mammothgeospatial.com

Bridie Hardy

Manager - Operations

Yilka Talintji Aboriginal Corporation /

Yilka Heritage and Land Care

bridiehardy@yilka.org.au

PUBLICATIONS

Resource development

Data analysis and spatial data resources developed for landscape architects: [resource repository](#).

Blog post

Wikimedia Australia Wikidata Fellowship project summary, 21 July 2022: [Populating Wikipedia: New tool integrating Australian Census data](#).

Presentation

Presentation to the Wikimedia East, Southeast Asia and the Pacific Regional Cooperation (ESEAP) Hub meeting, 12 February 2023: [Populating Wikipedia: Keeping population figures up-to-date in place articles](#).

Journal article

Williams, M., Kuhn W. and Painho M. (2012). The influence of landscape variation on landform categorization, *Journal of Spatial Information Science*, Iss. 5, 51-73. Available at <https://josis.org/index.php/josis/article/view/30> (Accessed 27 June 2023).

Dissertations

Master of Landscape Architecture, Part 2, October 2020: [Living. Beside the ridge. before the sea](#).

Master of Landscape Architecture, Part 1, June 2020: [Such possibilities in the processes of place](#).

Master of Science (Geospatial Technologies), March 2011: [Contribution towards understanding the categorisation of landforms](#).

Bachelor of Engineering (Environmental) honours, October 2006: [A farm scale site selection method for dryland forestry](#).