

Land Surveyor



“There is such a **variety of work**, everyday is different. You get to **see some pretty cool places**, not just stuck in an office!”

GEORGIA ROONEY

Favourite Project Name: Powerhouse Museum

Favourite Subjects at School: Geography, Maths, Physics, Physical Education (P.E)

Tertiary Study Completed: Bachelor of Surveying, Registered Surveyor NSW

Your Favourite Tools: 3D scanner is my favourite because it can record millions of points very quickly unlike traditional measurements with a theodolite where you record single points



THEODOLITE



PRISMS



3D SCANNER



TAPE MEASURE



DISTO



GPS ROVER



THE SURVEYORS' TRUST



Senior Geospatial Analyst

“The experiences and challenges that come with being a Geospatial Analyst ensure there’s **never a dull day**, and provide me with a sense of accomplishment by **contributing to society and making a real difference.**”



RHIANNAN MUNDANA

Favourite Project: Supporting local governments in preparing for the impacts of climate change and extreme weather events

Favourite Subjects at School: Geography, Science

Tertiary Study Completed: Bachelor of Science with Honours (double majors in Geology and Spatial Sciences and minor-equivalent in Geography and minor-equivalent in Geography)

Your Favourite Tools: ArcGIS, Python



MAPPING



DATA COLLECTION



CLIMATE CHANGE



PYTHON



DISASTER MANAGEMENT



ARCGIS

CURRENTLY WORKING AT

Spatial Vision



Graduate Spatial Cadet

“They say a **picture speaks a thousand words, so do maps.** This makes every project unique, each day is a different learning experience.”



BIANCA FICHERA

Favourite Project: Investigating the resilience of communities from certain council areas against the effects of climate change

Favourite Subjects at School: Geography, Visual Communication and Design

Tertiary Study Completed: Bachelor of Geospatial Science (Honours)

Your Favourite Tools: Our main tool is a computer, so my favourite programs we use are Adobe Illustrator and ArcGIS



MAPPING



DATA COLLECTION



CLIMATE CHANGE



COMPUTER



ADOBE ILLUSTRATOR



ARCGIS

CURRENTLY WORKING AT

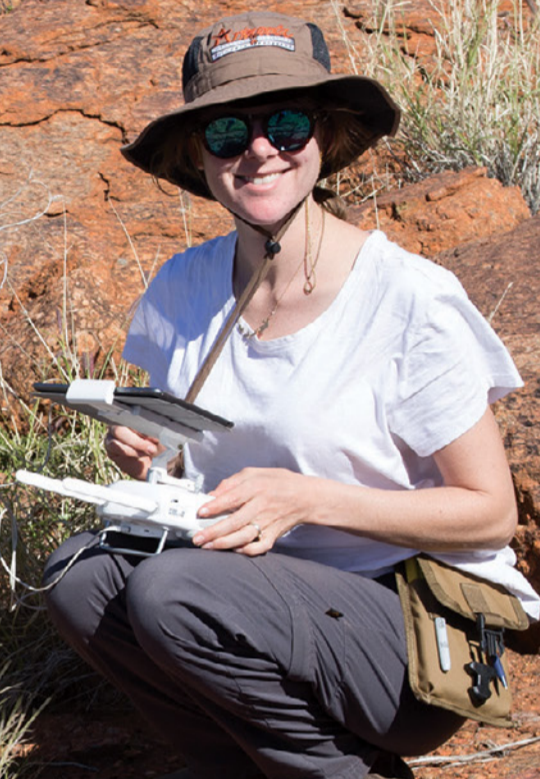
Spatial Vision



Earthquake Geologist



“I love using drones and science **to tell stories** about how earthquakes and tectonics are still changing our seemingly **ancient outback landscapes.**”



TAMARAH KING

Tamarah is an earthquake geologist and PhD student at the University of Melbourne. She uses field observations, drone imagery, and satellite data to study earthquake damage to investigate the past and future of Australian earthquakes. Her research allows her to explore remote parts of Australia and the world, travelling across the deserts of Australia, Timor-Leste, Indonesia and Scotland to look at geology and tectonics.

Favourite subjects at school: English, Women's Studies, Biology, Music

Further study: Bachelor of Science (Earth Sciences); Masters of Earth Sciences



CONSERVATION



HISTORY



COMMUNICATION



DRONE WORK



ROCKS



VOLCANOES



EARTHQUAKES



LANDFORMS



SHE MAPS

Landscape Architect



“There are a million ways that you can use your passions to **make the world a better place**; drones happened to be mine.”



Photo credit:
Ainslee Morgan
Immortal Eyes Photography

SARA WEBBER

Sara Webber is a small business owner, drone/gaming nerd, landscape architect, and certified drone operator. She is passionate about her career using drones for photography, film, photogrammetry, and 3D design. She uses drones to create accurate maps of the landscape for site context analysis, and to create an “Artist’s Impression” of how different designs will look when situated in their environment.

Favourite subjects at school: Fine Art, Legal Studies, Maths and English

Further study: Bachelor of Environments;
Permaculture Design Certificate



CONSERVATION



MAPPING



3D MODELLING



DRONE WORK



BIODIVERSITY



ARCHITECTURE



PHOTOGRAPHY



LANDSCAPE
DESIGN



SHE Maps

Environmental Scientist



“Drones are amazing tools that **allow us to see what our eyes cannot**, and they have **revolutionised the way** I think about solving environmental problems.”



CHIPPIE KISLIK

I use drones to investigate drought conditions in plants, as well as to identify algal blooms that float on the surface of the water. Drones allow me to examine changes over time in the environment, and help me detect issues related to water stress and water quality. I love having the freedom to plan, capture, and analyse my own data from start to finish!

Favourite subjects at school: Geography, English, Music, Cartography

Further study: Bachelor of Science in Conservation and Resource Studies



CONSERVATION



MAPPING



SATELLITE



DRONE WORK



BIODIVERSITY



WATER QUALITY



PLANTS



DROUGHT



SHE Maps

Solution Engineer



“I’m inspired by the **different perspective of the world** that drones give me, the applications are endless!”



CHRISTINE MUNISTERI

Christine is a Junior Solution Engineer and drone pilot at GEO Jobe GIS. She developed her interest in geospatial technologies while working with students in Belize as they mapped marine debris and studied flooding and disaster management. With her team at Citizen Science GIS and Open Reef, she uses drones to collect high resolution imagery of coastal communities and vulnerable islands to assist with island inventories, environmental research, and educational endeavors.

Favourite subjects at school: Geoscience, Remote Sensing, Italian, and Marine Biology

Further study: Bachelor of Arts in Environmental Studies

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CONSERVATION



MAPPING



COMMUNICATION



DRONE WORK



EDUCATION



FLOODING



DISASTER
MANAGEMENT



LITTER



SHE Maps

Business Development Manager



“Autonomous drones open up creative solutions for data collection in tough environments. I love working with different teams to unlock the potential of new technology.”



HOLSTEIN WONG

Favourite Project Name:

Cultural heritage preservation in Quinkan Country, Far North Queensland

Favourite Subjects at School:

Chemistry, Maths, Modern History, Physics

Tertiary Study Completed:

Bachelor of Materials Science and Engineering

Your Favourite Tools:

Drones, robotics, mapping, minerals processing, 3D modelling, underground mining, exploration



DRONE WORK



ROBOTICS



LIDAR



MINING



MAPPING



3D MODELLING



DATA COLLECTION



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SHE Maps

Land Surveyor



“I love being able to work on big projects, and **turn data into 3D models** for virtual reality.”

LAUREN HOLLAND

Favourite Project Name:

Winston Churchill's Old War Office

Favourite Subjects at School:

Geography, Music and Food Technology

Tertiary Study Completed:

Bachelor of Geography

Your Favourite Tools:

Favourite tool is Leica MS60, it is a total station and a laser scanner



GPR



LEICA MS60



LEICA BLK2GO
HAND HELD LASER
SCANNER LASER



LEICA
AIBOT DRONE



LEICA RTC360
LASER SCANNER



THE
SURVEYORS'
TRUST



Surveyor



“No one day is like another, **it is a constant adventure.** You never stop learning which **keeps me engaged and excited.**”

MARIE JANINA NAVARRO FERRER

Favourite Project Name:

Mulgumpin (Moreton Island) Surveys

Favourite Subjects at School:

Maths, English, Programming

Tertiary Study Completed:

Bachelor of Science in Geodetic Engineering

Your Favourite Tools: Total Station (favourite), prisms, GPS, calculator, tape measure, compass, laptop



TOTAL STATION
(LEICA TS 15)



GPS
(TRIMBLE R10)



COMPASS
(SUUNTO)



CALCULATOR
(HP 50G)



TAPE
MEASURE



PRISMS



THE
SURVEYORS'
TRUST



Cadastral Surveyor



“I like the **challenge of surveying** including the maths, logic and not to mention field work and travel.”

JEMMA PICCO

Favourite Project Name: Cape York Peninsula Tenure Resolution Project

Favourite Subjects at School: Geography, Maths

Tertiary Study Completed: Bachelor of Surveying and Bachelor of Information Technology (double degree)

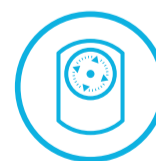
Your Favourite Tools: Total Station (favourite), GPS, prisms, compass, tape measure, tripod



TOTAL STATION



GPS



COMPASS



TAPE MEASURE



PRISMS



TRIPOD



THE SURVEYORS' TRUST



IT Innovation & Spatial Lead



“I love the fact that I get to **learn every day** and the opportunity to **make a difference** to our community.”

INGA PLAYLE

I have worked in a variety of geospatial roles, including government, consulting, utilities and energy. I choose geospatial because of the variety of career options, including the ability to work in the field or in the office and in different industries.

Favourite Subjects at School: Geography, Information Systems, Maths, Accounting

Tertiary Study Completed: Bachelor of Geomatics with Honours

Your Favourite Tools: 3D models & mesh, imagery, ArcGIS

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MAPPING



DATA COLLECTION



RENEWABLE ENERGY



3D MODELLING



ANALYSE DATA



ARCGIS



Earth observation Data Scientist



“I believe that **technology is the key to the future** and as a data scientist at GeoNadir, I am currently focusing on unlocking the endless information from **nadir angle using artificial intelligence.**”



JOAN LI

Favourite Project Name:

Find sea cucumber with drones

Favourite Subjects at School:

Maths, Biology, English

Tertiary Study Completed:

Master of Science in Marine Biology
(James Cook University)

Your Favourite Tools:

Google! honestly don't know how I can live without it.



DRONE WORK



AI



MAPPING



MARINE SCIENCE



EARTH OBSERVATION



SEA CUCUMBER



STEAM



BIODIVERSITY



Aerial Archaeologist



“I get to find new ways to look into the past. I get an advantage into **putting together the puzzle pieces of history** by using a birds eye view.”

KIKI LATHROP

Favourite Project: Recording an ancient structure with rock art from the 1100's. By making a 3D model we were able to learn a lot about what the structure was used for and how it was built.

Favourite Subjects at School: Sciences, History, Photography and Remote Sensing

Tertiary Study Completed: Astronomy & Archaeology. Graduate school in Museum Studies. Busy with second masters in Applied Geospatial Sciences.

Your Favourite Tools: My infrared drone that I nicknamed “Red”



DRONE WORK



HISTORY



MAPPING



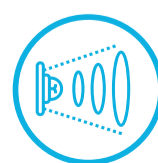
DATA ANALYSIS



ARCHAEOLOGY



ASTRONOMY



INFRARED



BIODIVERSITY



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