

Jennifer Thomson

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English (fluent), Mandarin Chinese (post-beginner), British Sign Language L1 (beginner)

Scuba Diving Profile:

147 scuba dives (41 drysuit, max depth 36m)

- **Freediving:** PFI Freediver (2022), static apnea 4 min, constant weight / free immersion max: 20 m
 - **Technical:** TDI Sidemount (2022), TDI / NSS_CDS Apprentice Cavern + Intro Cave Level 1 (2022)
 - **Professional:** PADI Divemaster (2019), with EFR, CPR, AED, Emergency Oxygen Provider (2021)
 - **Practical:** GUE Fundamentals & Nitrox 32% (rec, 2020), RYA Level 2 Powerboating (2020)
 - **Theory:** GUE Photogrammetry (2020), Girls that Scuba Scholar 2020 (Intro to Tech Diving)
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Education:

MSc	University of St Andrews: Marine Ecosystems Management (MEM) Merit: 80% (with distinction in dissertation: 85%)	2019-2020
	<ul style="list-style-type: none">• Computational programmes: R, MATLAB, ArcGIS, MamVisAD, QGIS• Field work: North Sea - oceanographic and biological sampling. Western Antarctic Peninsula – marine mammal observer and citizen science expedition (<i>cancelled due to covid, self-funded in 2022</i>)• Thesis: Investigating the relationships between coastal wetland biodiversity and ecosystem function [surface sediment stability and CO₂ storage] at the dynamic landscape scale (<i>in 4 months due to covid-19</i>)• Supervisors: Dr. Andrew Blight (Sediment Ecology Research Group)	
BSc	University of Manchester: (Hons) Zoology with Industrial Experience First Class: 76%	2015-2019
	<ul style="list-style-type: none">• Computational programmes: SPSS, Mathematica, QGIS• Field work: South Africa - animal behaviour, eco-physiology and tracking skills. Costa Rica - tropical rainforest ecology and anuran identification technology• Dissertation: investigating Arctic ground squirrel and brown bear hibernation physiology for use in human Mars missions• Final year project: An age-associated ventricular phenotype in the Greenland shark <i>Somniosus microcephalus</i>: investigating the propensity for coronary artery remodelling and cardiomyocyte hypertrophy (presented: 2019 Manchester Microscopy Conference)• Supervisor: Dr. Holly Shiels (Shiels Laboratory)	
Industrial Placement	Succulent Karoo Research Station: Small Mammal Research Assistant Result: 79%. Award: Honorary Research Fellow, University of the Witwatersrand (for contributions to the Bush Karoo Rat project, research and papers. 3-years)	2017-2018
	<ul style="list-style-type: none">• Field work: Ecophysiology, socio-ecology, radio tracking• Outcomes: Describing the social organisation of the Bush Karoo rat <i>Otomys unisulcatus</i> (<i>report</i>), established a long-term monitoring project that has become an integral part of the station's research activities• Supervisors: Dr. Carsten Schradin, Florian Drouard	
Diploma	KTH Royal Institute of Technology: Human Spaceflight (MOOC) Passed: 89%	2016

Scientific Experience:

Sub-sea consultant / exploration Ambassador	Blue Abyss, UK / global An advisor and exploration ambassador for sea-to-space science. Helping to create a network of next-generation extreme environment, R&D and training centres around the world.	2022-present
GUE Global NextGen scholar 2022	Global Underwater Explorers, USA / Europe / GCC region A year of GUE training, project diving, and global exploration, sponsored by Global Underwater Explorers, and Halcyon Dive systems. Participating in conferences, Indepth / Quest articles, YouTube / GUE tv / social media.	2022-2023
Antarctic citizen scientist	Oceanwide expeditions, Western Antarctic Peninsula Citizen science projects – Happy Whale. Megafauna surveys, lectures and Photo ID, MAPPPD Penguin abundance surveys, NASA cloud data.	2022
Shark and technical cavern diver	Freeport, Grand Bahama Island, Cristina Zenato Measuring Caribbean Reef sharks with lasers for population / life history estimates, shark handling dives, sidemount and cavern training.	2022
OceanX Expedition Scientist and Logistics coordinator	OceanXplorer, Red Sea Decade Expedition 2022, Saudi Arabia 8-month mission from planning to demobe, ~11 weeks onboard, Expedition logistics, media presentations with BBC NHU / Nat Geo / live classrooms, submersible dives for deep sea corals, helicopter flights for megafauna surveys, ROV dives for sediment cores, CTD and Niskin deployments for water samples, lab eDNA extractions, Winkler titrations	2021-2022
Research Specialist and Vendor (consultant)	Tarek Ahmed Juffali Research Chair, KAUST, Saudi Arabia Research specialist: field and laboratory technical, scientific scuba diving, field plans and expeditions, website communications, ecosystem restoration. Consultant vendor: scientific illustrator for publications	2021-2022
Reefscapers Marine Biologist	Marine Savers, Four Seasons Resort, Kuda Huraa, Maldives Snorkel trips for turtles / mantas / sharks, coral propagation scuba diving projects, turtle rehabilitation, ID programme for turtles / cetaceans, report writing, presentations, aquarium maintenance, media, outreach activities	2020-2021
ESA/ELGRA microgravity researcher	European Space Agency, Gravity Research Summer School, ESTEC Developed, led and presented a project regarding testing limpet radula as a biomaterial on microgravity platforms; lectures, astronaut experiences	2020
Editor and illustrator	The Marine Diaries Interview scientists from all over the world, edit and write articles, media content creation, illustrate scientific concepts, ecosystem infographics	2019-2020

Publications:

- Agnani, P., Thomson, J., Schradin, C., and Careau, V. (2020). 'The fast and the curious II: performance, personality, and metabolism in Karoo bush rats', *Behavioral Ecology and Sociobiology*, 74(10), 123-137. [Online]: <https://t.co/rjAnuTR5rw?amp=1>
- Wolhuter, L., Thomson, J., Schradin, C., Pillay, N. (2021). Life history traits of free-living bush Karoo rats (*Otomys unisulcatus*) in the semi-arid Succulent Karoo *Mammal Research*, 67, 73-81. [Online]: <https://doi.org/10.1007/s13364-021-00607-1>
- Phillips, A., Walsh, C., Grayson, K., Penney, C., Husain, F., and Women Doing Science Team (2022). Diversifying Representations of Female Scientists on Social Media: A Case Study From the Women Doing Science Instagram. *Social Media+ Society*, 8(3), 1-17 [Online]: <https://doi.org/10.1177/20563051221113068>
- In progress: Morphological and Histological features of the Greenland Shark Coronary Circulation (Yaar, S., Thomson, J., Gurney, A., and Shiels, H.)*

Interests: DofE Award, mountaineering, music, art, creative writing, illustrations, running, weightlifting.

References: available on request. **Driving:** valid UK Driving Licence.