

Jennifer Mc Shane




I am an accomplished, innovative and goal-oriented professional with a strong energetic and reliable work ethic. After a successful six-year career as a senior physiotherapist, followed by a fruitful five-year occupation as an orthopaedic surgical device sales consultant, I took the leap to back to university and pursue my calling in the field of marine biology. I am currently a prospective PhD candidate at the Centro de Ciências do Mar (CCMAR) in Faro, having completed my master's degree in marine biology through IMBRSea earlier this year. As such, I have accumulated a diverse number of complementary, with a focus on enhancing my molecular and laboratory skills. Having held numerous leadership positions during both of my university degrees as well as during my professional employ, I have been recognised by my peers as an asset to any team I form part of. My work and life experience have highlighted for me just how precious our time is, and as such, I always endeavour to make the most of every opportunity that crosses my path.

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 Palmela, Portugal

 South African with EU spousal residency

WORK HISTORY

June 2023 to Current

Prospective PhD candidate

Centro de Ciências do Mar (CCMAR), Faro, Portugal

Working in the Comparative Endocrinology and Integrative Biology Laboratory.

Supervisors: Prof. Deborah Powers & Prof. João Carlos dos Reis Cardoso

Key Duties

- Collection and processing of field samples.
- Sample handling for molecular biology, biochemical and histological analysis.
- Sample preparation for transcriptomics and metagenomics analysis.
- Assistance in the planning and experimental design of invertebrate innate and acquired immunity projects, within the laboratory.
- Bioinformatic analysis of metagenomic datasets.
- Scientific writing.

January 2022 to January 2023

SKILLS

Hard Skills

- Molecular laboratory skills, including the use of DNA, extraction, amplification and metagenomic sequencing library preparation (Illumina and MinION sequencing platforms).
- Biostatistics programming of large datasets (R statistical programming platform, QIIME, Galaxy), including use of High Performance Computing networks.
- Bioinformatic programming and analysis of large genomic datasets (R statistical programming platform, QIIME, Galaxy), including use of High Performance Computing (HPC) networks.
- Analysis and interpretation of various forms of genomic data using Arlequin, Geneious, BioEdit,

Masters Student

Ghent University, Ghent, Belgium

Masters Dissertation:

'Digging deep: a novel eDNA metabarcoding approach to investigate climate change effects on Antarctic benthic communities.'

Supervisors: Dr Francesca Pasotti & Dr Lara Macheriotou.

Key Skills:

- DNA extraction and amplification.
- Molecular library sample preparation work.
- eDNA metabarcoding (Illumina and MinION).
- Bioinformatic and statistical analysis (R, python).
- Scientific writing and journal manuscript preparation.

July 2021 to March 2022

IMBRSea Administration and Website redesign

IMBRSea, Ghent, Belgium

Assistance in administrative activities as well as redesign of the Masters programmes' website.

May 2021 to July 2021

Professional Practice Internship

Zoological Society of London, London, England

Worked on a project using Historical Remote sensing data to create kelp habitat maps for the West Sussex coastal area.

Supervisor: Dr Chris Yesson

Key Skills

- Historical satellite data acquisition and processing.
- GIS spatial mapping using QGIS and Acolite.
- Bioinformatic analysis of spatial data and maps in R.
- Project website creation (available at: <https://sites.google.com/imbrsea.eu/jennifer-mc-shane/home>)
- Presentation of findings at the Sussex Kelp Strategic Stakeholder meeting.

January 2018 to December 2019

Tutor and teaching assistant

Stellenbosch University, Stellenbosch, South Africa

MEGA.

- GIS Spatial mapping in QGIS and Acolite.
- Graphics design using GIMP, Image J, Inkscape.

Soft Skills

- Leadership
- Teamwork
- Teaching
- Problem-solving
- Time management
- Critical and creative thinking
- Adaptability

EDUCATION

January 2001 to December 2005

BSc Hons. Physiotherapy Honours

University of Cape Town, South Africa

- 1st Class Pass and Final Year Physiotherapy Research Thesis Prize (2005).
- Dean's List (2001/2/4/5).
- Member of Golden Key (International Award for highest grades in the Faculty).
- Member of RAG - 1st year Orientation Week Project Manager (2003).
- Health Sciences Student Council (HSSC) Committee Member (2004).
- Vice President HSSCC (2005).
- Physiotherapy Student Council Social Representative Leader (2005).

January 2016 to December 2018

BSc Hons. Botany and Zoology

Biodiversity and Ecology - Honours

Stellenbosch University, South Africa

- Selected to participate in the SEAmester (South Africa's classroom afloat) voyage aboard the S.S. Agulhas II research vessel (July 2018).
- Awarded a departmental Honours Bursary for academic

- 1st year biology practical and exam tutor
- Teaching and tutoring assistant.

March 2015 to January 2018

Front and Back of house Aquarium assistant

Two Oceans Aquarium, Cape Town, South Africa

Serving as a member of the volunteer team at the Two Oceans Aquarium in Cape Town, South Africa, which showcases the different oceans' wildlife through interactive displays and more than 8 000 marine animals from 200-plus marine species.

Key Skills

- Providing educational information for new staff and visitors.
- Overseeing upkeep of plants, animals and equipment within various client-facing exhibits.
- Assisting aquarists with tanks and exhibit maintenance and cleaning.
- Animal husbandry tasks including feeding of animals.
- Assisting with moving of animals in and out of the Aquarium.
- Elected and served as a member of Volunteer Committee for two years.

April 2017 to October 2017

Molecular ecology Laboratory Assistant

Stellenbosch University, Stellenbosch, South Africa

- Maintenance and cleaning of experimental aquaria.
- Feeding of aquatic organisms.
- Assistance in planning and experimental design of molecular experiments.

January 2015 to December 2015

Umbilical Stem Cell Sales Consultant

Salveo, Cape Town, South Africa

Serving as a member of the Sales team for Salveo Biotechnology, a Swiss private laboratory based in Geneva, specializing in stem cell cryopreservation, cell culture and regenerative medicine.

Key Skills

- Managed and grew new, emerging market territory.
- Created new and lucrative business partnerships.

achievement (top academic student in final under-graduate year class).

- Elected and served as a class representative (2016,17,18).

September 2020 to January 2023

Master of Science Marine Biological Resources - Magna Cum Laude

IMBRSea, Ghent

- Specialisation in Fisheries and Aquaculture, including mobility semesters at Ghent University (semesters one and three) and University of Basque Country.
- Masters Disertation at Ghent University - Thesis topic: *Digging deep*: a novel eDNA metabarcoding approach to investigate climate change effects on Antarctic benthic communities. Supervisors: Dr Francesca Pasotti & Dr Lara Macheriotou.
- Elected as a student class representative (2020).
- Elected as the Student Representative for the University Educational Board (2021-2022).

January 2020 to March 2020

CELT TEFL English Language Teacher Distinction (theory and practical)

SWAN English Language Teaching School, Dublin, Ireland

LANGUAGES

English

Native

Qualified CELT TEFL English Language Teacher

Afrikaans

Fluent

REFERENCES

1. Dr. Luana Monteiro



- Created training and educational programs for academic staff and new parents.

July 2012 to December 2014

Orthopaedic Sports Medicine Sales Consultant

Litha Earth Medical, Cape Town, South Africa

Serving as a member of the sales team for the Sports Medicine division of Litha Earth Medical, offering advanced, market-leading products and instruments used to repair or remove soft tissue.

Key Skills

- Managed and cultivated existing market territory.
- Significantly increased market awareness.
- As a result, substantially grew sales within the region.

May 2010 to July 2012

Orthopaedic Trauma Sales Consultant

Smith & Nephew, Cape Town, South Africa

Serving as a member of the Orthopaedic Trauma Sales team for Smith & Nephew, providing market-leading trauma products, used to stabilise severe fractures and correct bone deformities.

Key Skills and Achievements

- Promoted in less than a year of working for company.
- On 24-hour call-out duty every day of the month except for 4 days per month.
- Recognised as most successful new consultant at annual sales conference.

March 2010 to May 2010

Physiotherapist

MWB Physiotherapy, Cape Town, South Africa

Serving as a member of the physiotherapy team of MWB Physiotherapy in Cape Town, a multi-disciplinary practice holistically treating both in-and-out patient patients.

October 2007 to March 2010

Senior Physiotherapist

Liane Dawe Physiotherapy, Cape Town, South Africa

Serving as a senior member of the physiotherapy team of Liane Dawe Physiotherapy in Cape Town. The practice is a highly regarded Hand and Upper Limb

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of IMBRSea

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Professor | Marine Genomics and
Conservation Department of Botany
and Zoology
University of Stellenbosch
South Africa



Rehabilitation unit, which also provides in-patient care for a variety of medical and surgical conditions.

January 2007 to January 2007

Neurological Physiotherapist

Terry Douglas Physiotherapy, Cape Town, South Africa

Serving as a member of the physiotherapy team at Terry Douglas Physiotherapy in Cape Town. The practice has a special interest in neurological, vestibular and associated rehabilitation conditions, providing a professional, caring environment to support and enable change.

January 2006 to January 2007

Paediatric Physiotherapist

Red Cross Children's Hospital, Cape Town, South Africa

Serving as a community service physiotherapist at the Red Cross Children's Hospital in Cape Town. As the only dedicated child health institution in Southern Africa, the physiotherapy team offers a comprehensive range of specialist paediatric services to children.

Key Achievement

- Obtained a Distinction for final Clinical exam.



Jennifer Claire Mc
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