



NELSON MANDELA
UNIVERSITY

Institute for Coastal and Marine Research
(CMR)

Research Expertise
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CMR
COASTAL & MARINE
RESEARCH

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INTRODUCTION TO THE CMR

The Institute for Coastal and Marine Research (CMR) is a leading ocean and coastal sciences research entity of the Nelson Mandela University, based on the Ocean Sciences Campus in Gqeberha. The CMR is a University-wide research and engagement institute directly reporting to the Deputy Vice-Chancellor: Research, Innovation and Internationalisation. The Institute strives for excellence in transdisciplinary research and spans across all seven Nelson Mandela University Faculties, while including members from external national and international entities. The CMR conducts cutting-edge research and builds capacity to advance our understanding of the coastal and marine environment and of its sustainable use, when serving the needs of South Africa, the African continent and beyond. This knowledge provides a basis for optimal management strategies in order to maintain biodiversity and the sustainable use of resources, and contributes to the education of the community at large in all matters pertaining to the ocean and coast.



The CMR prides itself on its diverse team of dedicated researchers, collaborators and stakeholders, its pool of expertise being the widest in the region. The Institute continually challenges itself to grow and develop its expertise to address the global issues that the ocean and coastal environment is facing.

This booklet showcases CMR's expertise through its most active research members. This information aims to facilitate collaborations.

CMR MEMBER CATEGORIES

Ocean Sciences Research Chairs

The South African Research Chairs Initiative (SARChI) was initiated by the National Research Foundation (NRF) in 2006. Through the establishment of Research Chairs at public universities in South Africa, this initiative attracts and retains excellence in research and innovation in key specialist fields. The focus is on developing postgraduate students and early career researchers. Five such Research Chairs are hosted on the Ocean Sciences Campus. They contribute significantly towards CMR research management, development and outputs. The CMR provides administrative and research support services to these Research Chair Holders and their teams.

Researchers

These are academic staff members employed at the Nelson Mandela University within various Departments and Faculties. These CMR members lead or participate in CMR research projects. They also supervise postgraduate student members.

Research Fellows

Research Fellows are emerging or senior scientists hosted by the University for a period of three to five years for the purposes of capacity and research development. In contrast to Researchers, Research Fellows have little to no lecturing obligations. They have a strong focus on developing research projects and supervising postgraduate students. They add critical expertise to the CMR's research portfolio, participating in or leading CMR research projects, and enable collaborations with significant stakeholders.

Research Associates and Professors

Research Associates and Professors (Visiting; Honorary; Adjunct) are employed by entities external to the Nelson Mandela University or are retired, but retain formal links with various Nelson Mandela University Departments and the CMR through these honorary positions. These positions allow them to benefit from the facilities offered by the CMR and conduct their research in an official capacity using the CMR and Nelson Mandela University as part of their affiliation.

Associate Researchers

These CMR members are colleagues employed by external entities without being formally affiliated with the Nelson Mandela University or the CMR. They contribute to the pool of expertise available at the CMR and provide collaborative links to various stakeholders.

Post-Doctoral Research Fellows

These members are hosted in various Nelson Mandela University Departments by senior Researchers. They are given the opportunity to develop their research capacity and experience by leading sub-components of CMR and member research projects, by co-supervising postgraduate students, and by being included in general research development discussions and management. They provide important support capacity to the CMR.

OCEAN SCIENCES RESEARCH CHAIRS

Professor Amanda (Mandy) Lombard

Affiliation: SARChi Chair Holder – Marine Spatial Planning; Department of Botany

Email Address: mandy.lombard@mandela.ac.za

Research Interest(s): Marine Spatial Planning; Marine Conservation; GIS; System Dynamics Modelling

Description of Research: Professor Lombard's research focuses on marine conservation assessments and plans for effective conservation outcomes. Her work feeds into implementing integrated management of coastal and ocean areas, linking ecosystem-based management and ecosystem approaches. She contributes towards developing marine spatial planning capacity in research, teaching and policy development. She has a special interest in marine spatial planning for Antarctica and the Southern and Western Indian Oceans, top predators, and system dynamics modelling.

Professor Janine Adams

Affiliation: SARChi Chair Holder – Shallow Water Ecosystems; Deputy Director – CMR; Department of Botany

Email Address: janine.adams@mandela.ac.za

Research Interest(s): Estuarine & Ecosystem Ecology; Water Quality; Blue Carbon; Climate Change; Plant Ecology; Biodiversity

Description of Research: Professor Adams' research focuses on conservation and management of estuaries; blue carbon ecosystems and responses to climate change; ecophysiology of estuarine macrophytes; water quality management; and harmful algal blooms. Professor Adams was the CMR Director from 2017-2018 and has served as the CMR Deputy Director since 2019.

Professor Michael (Mike) Roberts

Affiliation: UK-SA Bilateral SARChi Chair Holder – Ocean Science and Marine Food Security; Department of Oceanography

Email Address: mike.roberts@mandela.ac.za

Research Interest(s): Physical Oceanography; Ecosystem Functioning; Climate Change; Ocean Currents & Circulation; Oceanographic Instrumentation; Fisheries

Description of Research: Professor Roberts' research interest is in marine ecosystem functioning. He investigates the processes that sustain food security with a strong focus on how climate change and a changing global ocean impacts marine upwelling systems in the Western Indian Ocean. He uses a multidisciplinary approach to work towards ecosystem and socio-economic modelling, which contribute towards ocean governance and food security structures.



Professor Patrick Vrancken

Affiliation: SARChi Chair Holder – Law of the Sea and Development in Africa; Department of Public Law; Deputy Director – CMR

Email Address: patrick.vrancken@mandela.ac.za

Research Interest(s): Law of the Sea, especially in the African maritime domain and the surrounding areas

Description of Research: Professor Vrancken's research focuses on: State ocean jurisdiction; the law of the sea in Africa; transnational organised fisheries crime; port law; and marine tourism law. He plays a role in developing ocean accounting frameworks, maritime training and research capacity in South Africa. His work contributes towards global ocean governance.



Professor Rosabelle (Rose) Boswell

Affiliation: SARChi Chair Holder – Ocean Cultures and Heritage; Faculty of Humanities

Research Interest(s): Conservation & Restoration of Cultural Heritage; Cultural Diversity; Ethnography; Human Rights; Cultural Tourism

Email Address: rose.boswell@mandela.ac.za

Description of Research: Professor Boswell's research interests are in cultural identity, gender and heritage in Africa and the Southwest Indian Ocean region. She explores and documents the expression and politics of intangible cultural heritage in the coastal communities. The work contributes to theories and models for heritage management, as well as sensory ethnography. Ultimately, the work expands the role of the humanities in the oceans economy, broadening knowledge of the maritime sector in Africa. She also uses poetry as a medium to inspire and alternatively express her research findings.

RESEARCHERS

Dr Alastair Potts

Affiliation: Department of Botany; African Centre for Coastal Palaeoscience (ACCP)

Email Address: alastair.potts@mandela.ac.za

Research Interest(s): Phylogeography; Species Distribution Modelling; Statistics; Ecology & Evolution; Palaeoclimate

Description of Research: Dr Potts' research focuses on various aspects of South African ecology: palaeovegetation distributions; plant phylogeography; drivers of biome boundaries; and Albany Subtropical Thicket ecology. He explores the interface between phylogenetic trees and networks.

Professor Andrea Hurst

Affiliation: Chair Holder – Identities and Social Cohesion in Africa

Email Address: andrea.hurst@mandela.ac.za

Research Interest(s): Philosophy; Complexity Thinking

Description of Research: Professor Hurst focuses on including complexity-thinking in philosophy in other disciplines. She examines the interface between complexity thinking, psychoanalytical theory, and philosophy as a way of life. She develops notions of ethical responsibility within the contemporary paradigm shift from simplicity to complexity.

Mr Andrew Young

Affiliation: Engineering Director – Marine Robotics Unit (MRU)

Email Address: andrew.young@mandela.ac.za

Research Interest(s): Engineering; Marine Robotics

Description of Research: Mr Young's research involves the development of robotics equipment and software for application and deployment in the marine environment.

Professor Brenda Scholtz

Affiliation: Head – Department of Computing Sciences

Email Address: Brenda.Scholtz@mandela.ac.za

Research Interest(s): Business Analysis; Information Management & Technology; Sustainability; Information System Management

Description of Research: Professor Scholtz's research focuses on data analysis and business intelligence, with an interest in applications towards environmental sustainability.

Mr Callum Anderson

Affiliation: Department of Geosciences

Email Address: callum.anderson@mandela.ac.za

Research Interest(s): Paleolimnology; Water Chemistry

Description of Research: Mr Anderson investigates geochemical aspects of microbialite/stromatolite systems, as well as mineralogical, geochemical and structural characteristics of geological features in the Eastern Cape.

Dr Danai Tembo

Affiliation: Department of Development Studies

Email Address: danai.tembo@mandela.ac.za

Research Interest(s): Ocean Governance and Security; Science to Policy Transfer; Environmental Education

Description of Research: Dr Tembo's research focuses on the governance of marine living resources (with specific emphasis on the legislation governing these resources and the associated implementation challenges), IUU fishing and the operational synergies with crime, and capacity building in the Western Indian Ocean (WIO) region (with a specific focus on the transfer of science to policy and the associated challenges).

Professor Eileen Campbell

Affiliation: Department of Botany; Curator – Ria Olivier Herbarium at the Department of Botany

Email Address: eileen.campbell@mandela.ac.za

Research Interest(s): Coastal Zone Management; Phycology; Sandy Beach Ecology; Vegetation Ecology

Description of Research: Professor Campbell's research investigates the biology and physiology of surf-zone diatoms, the ecology of Bontveld, and conservation. She has an interest in the flora of the Nelson Mandela University Nature Reserve, and in Red Data plants of the Eastern Cape.

Dr Gavin Rishworth

Affiliation: Department of Zoology

Email Address: gavin.rishworth@mandela.ac.za

Research Interest(s): Marine Ecology; Ecology & Evolution; Geobiology; Palaeoecology; Stable Isotope Ecology

Description of Research: Dr Rishworth's research considers ecosystem dynamics and features of modern supratidal microbialites compared to analogous extinct habitats. He investigates the functional drivers that promote the formation of these benthic lithified biofilms. He also studies benthic macroinvertebrates and their role in several estuarine and shallow coastal ecosystem services.

Professor Hendrik (Hennie) Van As

Affiliation: Department of Public Law; Director – FishFORCE Academy & Director – Centre for Law in Action under the Faculty of Law

Email Address: hennie.vanas@mandela.ac.za

Research Interest(s): Law Enforcement in the Marine Environment; Drafting and Implementation of Legislation; Constitutional Law; Human Rights; Governance

Description of Research: Professor Van As focuses on transnational organised crime in the fisheries industry, access to justice, local government law and ocean governance.



Professor Hervé Fritz

Affiliation: Acting Director – Sustainability Research Unit (SRU)

Email Address: herve.fritz@mandela.ac.za

Research Interest(s): Conservation Biology; Invasive Species; Behavioural Ecology; Biodiversity; Climate Change

Description of Research: Professor Fritz focuses on predator-prey interactions, invasive alien plants in coastal fynbos and thicket shrublands, anthropological constraints to social-ecological systems, and environmental research development.

Professor Houdini Fourie

Affiliation: Department of Applied Accounting

Email Address: houdini.fourie@mandela.ac.za

Research Interest(s): Audit; Management Audit; Finance Management; Corporate Governance; Financial Accounting

Description of Research: Professor Fourie researches internal auditing, governance, public finance, accounting scholarships and Information Systems Assurance. He is involved in environmental accounting research.

Dr Jan de Vynck

Affiliation: Director – African Centre for Coastal Palaeoscience (ACCP)

Email Address: jan.devynck@mandela.ac.za

Research Interest(s): Archaeology; Ichnology; Human Behavioural Ecology; Ethnobotany; Marine Biology

Description of Research: Dr De Vynck's work constitutes human origins research and studying Pleistocene trace fossils in the Cape. He investigates early human existence and interactions with the natural environment.

Professor Janet Cherry

Affiliation: Department of Development Studies

Email Address: janet.cherry@mandela.ac.za

Research Interest(s): Political Participation; Sustainable Development

Description of Research: Professor Cherry researches sustainable development, economic and social history, and development policy using Participatory Action Research.

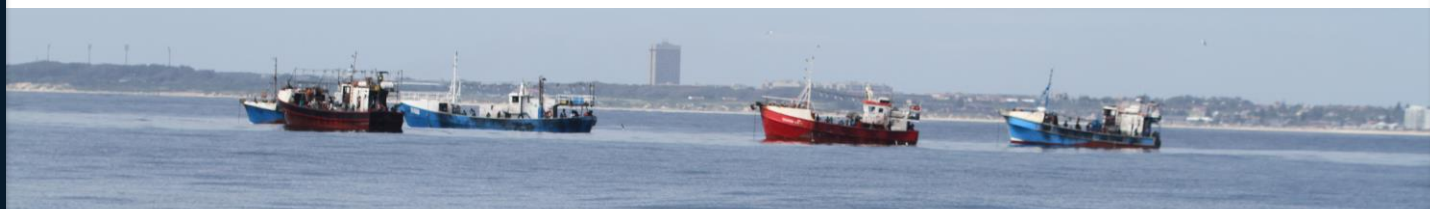
Professor Jean Greyling

Affiliation: Department of Computing Sciences

Email Address: jean.greyling@mandela.ac.za

Research Interest(s): Teaching; Programming; Software Development

Description of Research: Professor Greyling's work entails software and programme development and education. He leads student teams in the development of mobile apps and games that introduce coding concepts to learners, using tangible tokens and image recognition.



Dr Jessica Fraser

Affiliation: Business School

Email Address: jessica.fraser@mandela.ac.za

Research Interest(s): Operational Management; Logistics; Supply Chain Management

Description of Research: Dr Fraser's work focuses on operations management and logistics and extends into research on supply chain management (including shipping and ports management) integrated with e-business.

Ms Kirstie Eastwood

Affiliation: Department of Statistics

Email Address: kirstie.eastwood@mandela.ac.za

Research Interest(s): Mathematical & Applied Statistics; Statistical Modelling & Analysis

Description of Research: Ms Eastwood's research focuses on various aspects of statistical modelling and analysis.

Dr Magda Minguzzi

Affiliation: Department of Architecture

Email Address: magda.minguzzi@mandela.ac.za

Research Interest(s): Indigenous Knowledge Systems; Action Research; Community Engagement Projects

Description of Research: Dr Minguzzi's research focus is on tangible and intangible First Indigenous Heritage in the Eastern Cape, and specifically on the fish traps. She conducts research in collaboration with the First Indigenous People of Southern Africa.

Professor Nadine Strydom

Affiliation: Department of Zoology

Email Address: nadine.strydom@mandela.ac.za

Research Interest(s): Coastal Fish Ecology; Ichthyoplankton Ecology; Planktology; Biodiversity & Conservation; Fisheries Ecology; Aquatic Pollution

Description of Research: Professor Strydom works on the ecology of coastal fishes with a speciality on the early life history stages, in marine, estuarine and riverine habitats. Emphasis on ecology, reproduction, threats, conservation and management.

Dr Nomtha Hadi

Affiliation: Business School, Acting Director – CMR

Email Address: nomtha.hadi@mandela.ac.za

Research Interest(s): Maritime Development; Long Term Strategic Planning

Description of Research: Dr Hadi's work constitutes shipping and ports research, stakeholder analysis and management, integrated strategic planning, and public participation processes. She is also involved in coastal development and municipal planning and performance.



Professor Pamela Maseko

Affiliation: Dean – Faculty of Humanities

Email Address: pamela.maseko@mandela.ac.za

Research Interest(s): Translation Studies; Language Learning; Intercultural Communication

Description of Research: Professor Maseko works towards developing and building partnerships for humanities focused knowledge exchange. She is interested in linking humanities research to ocean sciences.

Professor Paula Melariri

Affiliation: Department of Environmental Health

Email Address: paulaezinne.melariri@mandela.ac.za

Research Interest(s): Communicable Diseases; Public Health; Ethnopharmacology

Description of Research: Professor Melariri's expertise field is in Pharmacology, with a focus on disease control using natural and synthesised products. Her current research interests are in the following fields: Neglected Tropical Diseases (NTDs); Water Sanitation and Hygiene (WASH); influence of WASH and the environment on water quality; waterborne diseases; and nanomaterials and the environment. She is interested in linking environmental health to human health.

Dr Paul-Pierre Steyn

Affiliation: Department of Botany

Email Address: paul.steyn@mandela.ac.za

Research Interest(s): Marine Ecology; Macroalgae; Seaweed Mariculture

Description of Research: Dr Steyn's research focuses on macroalgal communities of shallow reefs in the Eastern Cape, and abalone ranching and seeding. He is involved in environmental impact assessments and management, and botanical and ecological assessments.

Dr Phumelele Gama

Affiliation: Department of Botany

Email Address: phumelele.gama@mandela.ac.za

Research Interest(s): Aquatic Plant Ecology; Phytoplankton Ecology

Description of Research: Dr Gama's work entails various aspects of aquatic plant ecology and phytoplankton ecology.

Professor Pierre Pistorius

Affiliation: Manager – Marine Apex Predator Research Unit (MAPRU); Department of Zoology

Email Address: pierre.pistorius@mandela.ac.za

Research Interest(s): Marine Top Predators; Conservation Biology; Biodiversity Monitoring; Behavioural Ecology

Description of Research: Professor Pistorius is involved in various aspects of marine apex predator research, including (amongst others): time-activity budgets; foraging ecology; behavioural ecology and linking changes to climate change; improvements to conservation and marine ecosystem management; and habitat preferences.

Professor Ronney Ncwadi

Affiliation: Department of Economics

Email Address: ronney.ncwadi@mandela.ac.za

Research Interest(s): Economic Development; Entrepreneurship; Econometric Analysis

Description of Research: Professor Ncwadi's research focus is on Public Finance, small business development, informal sector economics, and applied economics. He is involved in Blue Economy research.

Ms Tanya Wagenaar

Affiliation: Department of Private Law

Email Address: tanya.wagenaar@mandela.ac.za

Research Interest(s): Intellectual Property; Legal Theory; Legal Analysis; Ocean Governance

Description of Research: Ms Wagenaar investigates intellectual property consequences of marine bioprospecting, focusing on the integration of the governance regimes which apply to the main aspects of marine bioprospecting. These include law applicable to biodiversity, the sea and intellectual property rights.

Dr Timothy (Tim) Pittaway

Affiliation: Department of Agricultural Sciences

Email Address: timothy.pittaway@mandela.ac.za

Research Interest(s): Food Security; Organic Farming; Rural Development; Sustainable Agriculture

Description of Research: Dr Pittaway's research focuses on sustainable agriculture, using aquaculture and hydroponic systems to contribute towards food security initiatives.



RESEARCH ASSOCIATES & PROFESSORS

Dr Alistair McInnes

Affiliation: Research Associate – CMR

Email Address: alistair.mcinnnes@birdlife.org.za

Research Interest(s): Natural Resource Management; Marine Biology; Ecology & Evolution; Biodiversity; Conservation; Software Development

Description of Research: Dr McInnes' research interest is in solution-driven approaches to seabird conservation.

Dr Andréa Thiebault

Affiliation: Research Associate – CMR

Email Address: andrea.thiebault@mandela.ac.za

Research Interest(s): Animal Behaviour; Animal Communications; Foraging Ecology; Movement Ecology; Statistical Modelling; Bioacoustics; Biologging; Seabirds

Description of Research: Dr Thiebault's research considers various aspects of marine apex predator research. Her main focus is on the social interactions among foraging seabirds, contributing both to the advancement of fundamental research and to more informed management strategies for the conservation of vulnerable ecosystems.

Professor Bernadette (Berny) Snow

Affiliation: Adjunct Professor – CMR; Deputy Director for the One Ocea Hub at the University of Strathclyde (United Kingdom)

Email Address: bernadette.snow@strath.ac.uk

Research Interest(s): Development Studies; Sustainability; Environmental Management; Society & Environment; Community Development; Climate Change Adaptation

Description of Research: Professor Snow's research considers socio-economic studies; pro-environmental behaviours; world-views; connections to the ocean; sustainable and resilient coastal communities; integrated and dynamic ocean and coastal management; and water management. Her key focal area is social-ecological systems. She was the CMR Deputy Director in 2017, Acting Director in 2018, and Director for 2019 and 2020.

Dr Bianca Currie

Affiliation: Research Associate - Sustainability Research Unit (SRU)

Email Address: admin@gardenroutebiosphere.org

Research Interest(s): Adaptive Management; Social Learning; Social-Ecological Systems; Sustainable Development; Community Engagement

Description of Research: Dr Currie has an interest in facilitating social learning in public participation processes and developing social learning assessment tools. Her work involves participative mapping and the comparison of cultural ecosystem services, exploring the value of stakeholders in research, and coastal living for future initiatives.

Dr Brent Newman

Affiliation: Research Associate – CMR; Principal Scientist – Council for Scientific and Industrial Research (CSIR)

Email Address: bnewman@csir.co.za

Research Interest(s): Marine and Coastal Ecology & Biodiversity; Ecological Monitoring; Water Quality; Marine Pollution; Geochemistry; Toxicity; Crustaceans

Description of Research: Dr Newman's work focuses on environmental chemistry and toxicology, including: water and sediment chemistry; water and whole sediment toxicity testing; and human health risk. He develops models to determine if sediment in South African coastal waters is contaminated by various metals. He performs human health risk assessments based on exposure to chemicals/contaminants in marine and estuarine fish and shellfish. He maintains an active interest in crustacean research.

Dr Chijioke Olisah

Affiliation: Research Associate – CMR; Shallow Water Ecosystems Research Chair

Email Address: olisah.chijioke@gmail.com

Research Interest(s): Chromatography; Mass Spectrometry; Chemical Analysis; Analytical Method Development

Description of Research: Dr Olisah's research is in the field of analytical marine chemistry. He is involved in monitoring, health implications and ecological risk assessments in the marine environment, with a special interest in estuaries.

Dr Christo Rautenbach

Affiliation: Research Associate – CMR; National Institute of Water and Atmospheric Research (New Zealand)

Email Address: rautenbachchristo@gmail.com

Research Interest(s): Physical Oceanography; Coastal Processes; Numerical Modelling; Computational Fluid Mechanics; Hydrodynamics

Description of Research: Dr Rautenbach's research focus is on fluid dynamics, coastal sediment studies, and morphology and coastal vulnerability assessments. He also investigates regional wave, tide and storm surge forecasting.

Professor Christo Fabricius

Affiliation: Research Associate – Sustainability Research Unit (SRU); Capacity for African Resource Management

Email Address: christo.fabricius@mandela.ac.za

Research Interest(s): Communities; Land/Seascapes and Livelihoods; Systems Ecology; Invasive Species; Monitoring & Evaluation

Description of Research: Professor Fabricius' work focuses on community-based natural resource management. He investigates human dimensions of wildlife, adaptive management, developmental monitoring, and evaluation in African social-ecological systems, helping conservation agencies, communities and managers to make evidence-based decisions about sustainable natural resource use and management.

Dr David Kaplan

Affiliation: Research Associate – CMR; Institut de Recherche pour le Développement (IRD; France)

Email Address: david.kaplan@ird.fr

Research Interest(s): Marine Protected Areas; Marine Spatial Planning; Population Dynamics of Marine Species; Meta-Population Modelling; Coastal Oceanography

Description of Research: Dr Kaplan's research focuses on assessing the effects of different forms of spatial and non-spatial fisheries management on marine populations. He investigates how marine spatial management relates to sustainability, conservation, and community structure.

Dr Derek du Preez

Affiliation: Research Associate - Department of Botany

Email Address: derek.dupreez@mandela.ac.za

Research Interest(s): Botany; Photosynthesis; Phycology; Water Stress; Abiotic Stress; Nitrate; GIS

Description of Research: Dr Du Preez focuses on phytoplankton biodiversity, taxonomy, and harmful algal blooms in the Algoa Bay region, as well as the biology and physiology of surf-zone diatoms.

Dr Dylan Bailey

Affiliation: Research Associate – CMR; Aquarium Operations Curator – Bayworld

Email Address: dylan.bailey@bayworldoceanarium.com

Research Interest(s): Oceanography; Numerical Modelling; Aquarium Management

Description of Research: Dr Bailey's research focuses on ocean dynamics of the shelves and bays of the Eastern Agulhas Bank. He investigates the effects of climate change on various marine species, the effects of the Agulhas Current on sea bottom temperatures, and the effects of coastal trapped waves along the coast.

Dr Eckart Schumann

Affiliation: Research Associate – Department of Geosciences

Email Address: eckarts@mweb.co.za

Research Interest(s): Coastal & Physical Oceanography; Hydrology; Shoreline Sedimentation; Ocean Energy; Weather and Climate; Estuarine Hydrodynamics

Description of Research: Dr Schumann's research focuses on the physical oceanography of coastal processes, and he has an interest in estuarine dynamics, shoreline sedimentation and weather, climate and ocean energy.



Dr Elena Perez-Alvaro

Affiliation: Post-Doctoral Research Fellow – Department of Sociology & Anthropology

Email Address: elenaperezalvaro@gmail.com

Research Interest(s): Underwater Cultural Heritage; Indigenous & Gender Studies

Description of Research: Dr Perez-Alvaro's research focuses on ethics, laws and politics of cultural heritage, uses and valuation of underwater cultural heritage, protection of cultural heritage from climate change, enhancement of intangible heritage, the relationship between natural and cultural heritage, human rights and cultural heritage, sustainable management of coastal heritages, and cultural heritage of indigenous communities.

Dr Emma Rocke

Affiliation: Research Associate – CMR; Junior Research Fellow – University of Cape Town

Email Address: erocke@gmail.com

Research Interest(s): Marine Microbiome; Upwelling Ecosystems; Phytoplankton Ecology and Phylogeny; Marine Hypoxia

Description of Research: Dr Rocke is a marine microbiologist with a particular interest in microbial community dynamics in ocean ecosystems. She strives for a holistic approach to answering scientific questions through collaborations with microbiologists, ecologists, engineers and physical oceanographers. Dr Rocke has spent the last 8 years focusing on the Southern Benguela Upwelling region as well as the Agulhas Bank, with a specific focus on how the resident microbial community is affecting critical nutrient cycling here.

Dr Ernita Flynn

Affiliation: Research Associate – CMR; ICLEI – Local Governments for Sustainability

Email Address: ernita.van.wyk@iclei.org

Research Interest(s): Social-Ecological Systems; Ecosystem Services; Natural Resource Management & Governance

Description of Research: Dr Flynn's research interests are in the fields of invasive species, adaptive management, biodiversity mainstreaming, and environmental stewardship. She applies social-ecological systems understanding across a variety of ecosystems and contexts.

Dr Errol Wiles

Affiliation: Research Associate – CMR; Geophysics Instrument Scientist – South African Institute for Aquatic Biodiversity (SAIAB)

Email Address: ea.wiles@saiab.nrf.ac.za

Research Interest(s): Marine Geology; Geomorphology; Sedimentology; Geological Processes; Links between Geomorphology; Marine Habitat; Biology & Biodiversity

Description of Research: Dr Wiles' research focuses on understanding the geology and geomorphology of the coastal and deep marine waters with particular interest in coastal hazards and sediment transport, and the relationship between geomorphological habitat and biodiversity. In addition to research, he manages the ACEP Geophysics and Mapping Platform; the only competitively awarded research platform in South Africa.

Dr Estee Miltz

Affiliation: Research Associate – CMR; Policy Development Analyst – Millennium Institute

Email Address: esteever01@gmail.com

Research Interest(s): System Dynamics Modelling; Systems Thinking; Integrated Ocean Management; Marine Spatial Planning; Complex Systems; Social-ecological Systems; Marine Ecosystem Service Accounting

Description of Research: Dr Miltz's research focuses on applying systems thinking and system dynamics modelling to integrated ocean management and sustainability applications.

Dr Florian Orgeret

Affiliation: Research Associate – CMR

Email Address: florianorgeret@gmail.com

Research Interest(s): Marine Ecology & Biology; Biostatistics; Tracking; Spatial Analysis

Description of Research: Dr Orgeret's research compares marine top predator distribution patterns and behaviours between French and South African subantarctic islands.

Dr Gavin Snow

Affiliation: Research Associate – CMR

Email Address: estuariesnow@gmail.com

Research Interest(s): Water Quality; Marine & Ecosystem Ecology; Environmental Science

Description of Research: Dr Snow's research involves balancing the use of water as a resource to support economic and social development, and the sustainable use of source ecosystems. His work relates microalgae to environmental conditions of freshwater, coastal, and marine environments.

Dr Greg Hofmeyr

Affiliation: Research Associate – Department of Zoology; Curator - Marine Mammal Collection, Port Elizabeth Museum at Bayworld

Email Address: greghofmeyr@gmail.com

Research Interest(s): Marine Ecology; Conservation Biology; Animal Behaviour

Description of Research: Dr Hofmeyr's research encompasses the ecology, morphology and taxonomy of marine mammals with a special interest in pinnipeds. He manages marine mammal stranding response along the Eastern and Southern Cape coastline.

Professor Guy Bate

Affiliation: Research Associate – Department of Botany

Email Address: Guy.Bate@mandela.ac.za

Research Interest(s): Marine & Coastal Ecology; Water Quality; Biogeochemistry

Description of Research: Professor Bate's research focus is on water quality in the coastal zone, with a special interest in estuaries.

Dr Gwenith (Gwen) Penry

Affiliation: Research Associate – CMR

Email Address: gwenith.penry@mandela.ac.za

Research Interest(s): Marine Mammals; Conservation Biology; Wildlife Ecology; Marine Tourism; Large Whale Entanglements

Description of Research: Dr Penry's research fields are in zoology, ecology and conservation, specialising on the South African Bryde's whale. Recent work involved research to mitigate whale entanglements and marine tourism sustainability. She is a member of the SA Marine Mammal Technical & Scientific working group, the South African humpback dolphin consortium (SouSA), and the IndoCet Consortium (Indian Ocean Cetacean Research).

Dr Hashali Hamukuaya

Affiliation: Research Associate – CMR

Email Address: hashali.hamukuaya1@mandela.ac.za

Research Interest(s): Fisheries Sciences; Marine Ecology; Marine Environment

Description of Research: Dr Hamukuaya's current research focus is on ocean governance, blue economy, ecosystem-based management, fisheries management, and strategic planning.

Dr Hayley Cawthra

Affiliation: Research Associate – African Centre for Coastal Palaeoscience (ACCP); Senior Scientist – Remote Sensing Unit of the Council for Geoscience

Email Address: cawthra.h@gmail.com

Research Interest(s): Geology; Sedimentology; Palaeoclimatology; Marine Geoscience; Submerged Landscapes

Description of Research: Dr Cawthra's research focus is on marine geophysics, Quaternary sea-level change, human use of ancient coastlines, and the emergence of palaeoenvironments through changing climate regimes on continental shelves.

Dr Jai Clifford-Holmes

Affiliation: Research Associate – CMR

Email Address: jai.clifford.holmes@gmail.com

Research Interest(s): Water Resource Science

Description of Research: Dr Clifford-Holmes' work focuses on complex social-ecological systems, and system dynamics modelling.

Dr Jean Harris

Affiliation: Research Associate – CMR; Leader – WILDOCEANS Programme of the WILDTRUST

Email Address: jeanh@wildtrust.co.za

Research Interest(s): Fisheries; Marine Ecology; Marine Biodiversity; Conservation Biology; Coastal Ecology

Description of Research: Dr Harris' work focuses on biodiversity, conservation, and environmental management, including marine protected areas.

Dr Jennifer Olbers

Affiliation: Research Associate – CMR; Senior Marine Scientist – WILDOCEANS Programme of the WILDTRUST

Email Address: jennifer@wildtrust.co.za

Research Interest(s): Marine Biodiversity; Marine Conservation

Description of Research: Dr Olbers' research focus is on adapting various marine conservation practices through legislation and policy while supporting improved governance, law enforcement and compliance.

Professor Julien Pétilion

Affiliation: Research Associate – CMR; Deputy Director Eco-Evo Department – University of Rennes

Email Address: julien.petillon@univ-rennes1.fr

Research Interest(s): Salt Marsh Functioning & Conservation; Spider Biology; Taxonomy; Ecology & Evolution

Description of Research: Professor Pétilion's specialist field is evolutionary ecology. He has expertise in salt marsh research, ranging from the impact of invasive plant and invertebrate species, to the biology of invertebrates inhabiting these systems.

Professor Juliet Hermes

Affiliation: Honorary Professor – CMR; Manager – South African Environmental Observation Network (SAEON) Egagasini Node

Email Address: juliet@saeon.ac.za

Research Interest(s): Oceanography; Ocean Modelling; Climate

Description of Research: Professor Hermes' work involves a transdisciplinary approach to marine science, strategic project development, regional and international collaborations, and capacity development. She researches benthic biodiversity, habitat mapping, physical oceanography, air-sea interactions, the Blue Economy, the impact of climate change on fisheries, and the local ecological knowledge of fishing communities, amongst others.

Professor Kerry Sink

Affiliation: Honorary Professor – CMR; Marine Programme Manager – South African National Biodiversity Institute (SANBI)

Email Address: k.sink@sanbi.org.za

Research Interest(s): Biodiversity Assessment; Marine Biology; Natural Resource Management; Marine Protected Areas; Conservation

Description of Research: Professor Sink leads the marine component of the National Biodiversity Assessment and technical work to design and implement Marine Protected Areas. She is engaged in transdisciplinary work and supports spatial planning, governance, policy development and management in the marine environment.



Professor Lara van Niekerk

Affiliation: Visiting Professor – CMR; Council for Scientific and Industrial Research (CSIR)

Email Address: lvnieker@csir.co.za

Research Interest(s): Water Resource Management; Hydrological Modelling; Environmental Analysis; Estuarine Ecology

Description of Research: Professor Van Niekerk's research investigates ecological flow requirement methods, and the strategic and operational policies and legislation required for effectively managing South Africa's estuaries.

Dr Linda Harris

Affiliation: Research Associate – CMR

Email Address: Linda.Harris2@mandela.ac.za

Research Interest(s): Coastal & Marine Ecology; Sandy Beaches; Systematic Conservation Planning; Marine Spatial Planning; Biodiversity Assessment & Prioritisation; Spatial Ecology & Conservation; Movement Ecology; Sea Turtles; Climate Change

Description of Research: Dr Harris' research focus is currently on various aspects of coastal and marine ecology, biodiversity assessment, and spatial prioritisation including systematic conservation planning and marine spatial planning. Areas of work range from fine-scale local planning to regional planning for implementation, with a special interest in sandy beaches and robust inclusion of the land-sea interface in biodiversity conservation and management processes.

Professor Lorien Pichegru

Affiliation: Adjunct Professor – CMR; CMR Acting Director (February 2021 – June 2023)

Email Address: Lorien.Pichegru@mandela.ac.za

Research Interest(s): Biodiversity & Conservation; Endangered Species; Climate Change

Description of Research: Professor Pichegru's research focus is on seabird foraging ecology and life history traits in relation to prey availability and local competition with industrial fisheries. She is involved in marine waste initiatives and is active in public and community engagement.

Dr Lucienne Human

Affiliation: Research Associate – CMR; Manager – Biochemistry Laboratory at the South African Environmental Observation Network (SAEON) Elwandle Coastal Node

Email Address: lucienne.human@saeon.ac.za

Research Interest(s): Ecophysiology; Water Quality; Estuarine Science; Eutrophication; Nutrient Analysis & Cycling

Description of Research: Dr Human studies various aspects of estuarine, salt marsh and microbial ecosystems, including: green tides; Blue Carbon stocks; heavy-metal bio-availability; and seascapes of fish nursery areas, amongst others.

Dr Maëlle Connan

Affiliation: Research Associate – Department of Zoology

Email Address: maelle.connan@gmail.com

Research Interest(s): Marine Biology; Stable Isotopes; Lipids; Conservation Biology; Ecology; Biogeochemistry

Description of Research: Dr Connan specializes in studying the trophic ecology of marine top predators in the sub-Antarctic and southern African coast. Her latest research also focuses on avian scavenger ecology in the sub-Antarctic and a digression to marine pollution.

Dr Malcolm Smale

Affiliation: Research Associate – Department of Zoology

Email Address: mjsmale1@gmail.com

Research Interest(s): Ecology; Biodiversity & Conservation; Population Genetics

Description of Research: Dr Smale's research interests are in the biology and feeding ecology of marine apex predators, with a specific focus on sharks.

Dr Margaux Noyon

Affiliation: Research Associate – CMR

Email Address: margaux.noyon@mandela.ac.za

Research Interest(s): Biological Oceanography; Marine Ecology; Biogeochemistry

Description of Research: Dr Noyon's research interest is in plankton ecology, ecosystem functioning, and physical-biological coupling. She has worked in diverse marine environments, from the open ocean to shelf seas, with an emphasis on meso- and sub-mesoscale structures.

Dr Myriam Perschke

Affiliation: Post-Doctoral Research Fellow – Department of Oceanography

Email Address: M.Perschke@posteo.de

Research Interest(s): Coastal Ecological Infrastructure; Coastal Culturally Significant Areas; Coastal Ecosystem Services; Systematic Conservation Planning

Description of Research: Dr Perschke's research focuses on the mapping and integration coastal ecosystem services into systematic conservation planning using the Ecological Infrastructure concept as a framework. Her works also investigates the mapping and identification of Culturally Significant Areas along the South African Coast.

Dr Nelson Miranda

Affiliation: Research Associate – Department of Zoology

Email Address: mirandanaf@gmail.com

Research Interest(s): Invasive Species; Ecology; Water Quality; Climate Change

Description of Research: Dr Miranda's work in coastal aquatic environments focuses on invertebrates, algae, and alien invasive species in southern Africa and the South-Western Indian Ocean region.

Professor Nicola (Nikki) James

Affiliation: Visiting Professor – CMR; Senior Aquatic Biologist – South African Institute for Aquatic Biodiversity (SAIAB)

Email Address: nc.james@saiab.nrf.ac.za

Research Interest(s): Global and Climate Change Biology; Estuarine and Coastal Fish Ecology

Description of Research: Professor James' research focuses primarily on the effects of global and climate change on coastal and estuarine fishes, as well as the importance of different coastal habitats as nursery areas for juvenile marine fishes within shallow-water seascapes.

Dr Nina Rivers

Affiliation: Research Associate – CMR; Post-Doctoral Research Fellow – One Ocean Hub (OOH)/Strathclyde University; Marine Spatial Planning Research Chair

Email Address: nina.rivers@gmail.com

Research Interest(s): Anthropology; Integrated Ocean Management; Knowledge Integration; Inclusive Stakeholder Engagement Processes; Environmental Education; Social Learning

Description of Research: Dr Rivers' research investigates the integration of different knowledge systems such as indigenous local knowledge into current ocean and coastal area-based management frameworks like marine spatial planning. Her work also considers inclusive and sustainable stakeholder engagement processes in ocean governance contexts. Other research interests include social learning, socio-ecological systems, and the sociocultural and historical factors that mediate people's use and management of the oceans and coasts.

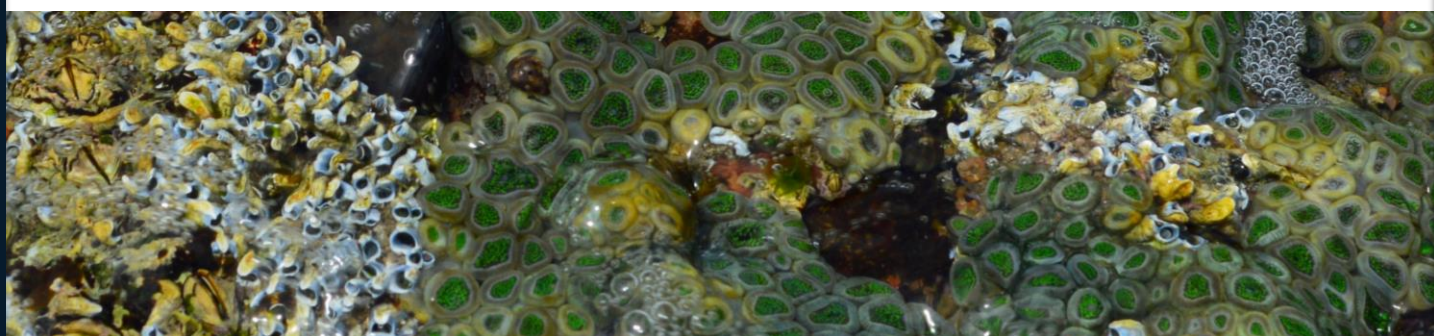
Dr Olivier Bousquet

Affiliation: Research Associate – CMR; Director of Research – French Ministry of Sustainable Development (MTES); Expertise France under the French Ministry of Foreign Affairs

Email Address: olivier.bousquet@expertisefrance.fr

Research Interest(s): Atmospheric & Oceanic Observation and Modelling; Tropical Cyclones; Marine Ecology

Description of Research: Dr Bousquet's work focuses on atmospheric and oceanic observations. He designs and manages international research projects that consider tropical cyclones, ocean sciences, and climate change. Dr Bousquet is hosted by the CMR as a Research and Project Manager during 2021 for research and funding development.



Dr Patrick Vianello

Affiliation: Research Associate – CMR

Email Address: patrick.vianello2@gmail.com

Research Interest(s): Physical Oceanography; Data Analysis

Description of Research: Dr Vianello's work focuses on oceanography in the Southwest Indian Ocean Region, making use of various advanced computer programming languages.

Professor Peter Jones

Affiliation: Honorary Professor – CMR; University College London (United Kingdom)

Email Address: p.j.jones@ucl.ac.uk

Research Interest(s): Ocean Governance; Policy

Description of Research: Professor Jones' research focus is on natural resource governance, including the governance of marine protected areas and marine spatial planning.

Professor Renzo Perissinotto

Affiliation: Honorary Professor – CMR

Email Address: renzo.perissinotto@mandela.ac.za

Research Interest(s): Shallow Water Ecosystems; Estuaries; Taxonomy

Description of Research: Professor Perissinotto's research focus is on the ecophysiology and taxonomy of invertebrates, with a special interest in beetles. He investigates the ecosystem functioning and biodiversity of estuarine and microbialite systems.

Professor Richard Cowling

Affiliation: Emeritus Professor – Department of Botany

Email Address: Richard.Cowling@mandela.ac.za

Research Interest(s): Ecology; Evolution; Conservation

Description of Research: Professor Cowling's research focuses on the ecology, evolution and conservation of the Fynbos, Succulent Karoo, and Subtropical Thicket Biomes.

Professor Ronel Nel

Affiliation: Research Associate – Department of Zoology

Email Address: ronel.nel@mandela.ac.za

Research Interest(s): Sea Turtle Ecology & Conservation; Sandy Beach Ecology; Coastal Zone Management

Description of Research: Professor Nel's research focuses on various aspects of sea turtle ecology and conservation. She has an interest in sandy beach ecology and coastal zone management.

Dr Shaun Deyzel

Affiliation: Research Associate – CMR; Science and Data Coordinator – South African Environmental Observation Network (SAEON) Elwandle Coastal Node

Email Address: hp.deyzel@saeon.nrf.ac.za

Research Interest(s): Marine Ecology; Biological Oceanography; Plankton Dynamics; Ocean Observation & LTER; Data Science

Description of Research: Dr Deyzel's work investigates coastal and estuarine ecosystems with a focus on oceanography, plankton ecology, zooplankton community dynamics, climate change responses, ocean observation technologies, and information systems.

Dr Shirley Parker-Nance

Affiliation: Research Associate – CMR; Researcher – South African Environmental Observation Network (SAEON) Elwandle Coastal Node

Email Address: s.parkernance@saeon.nrf.ac.za

Research Interest(s): Taxonomy; Conservation; Marine Biodiversity; Ecosystem Ecology; Invertebrate Zoology; Scientific Diving; Benthic Ecology; Fish Population Dynamics

Description of Research: Dr Parker-Nance's research focuses on subtidal reef mapping, and ascidian and benthic invertebrate taxonomy. She constructs user-friendly species databases to promote public awareness for the conservation of marine habitats.

Dr Sibusisiwe Ngqulana

Affiliation: Research Associate – CMR; Collection Manager - Marine Mammal Collection, Port Elizabeth Museum at Bayworld

Email Address: ngqulanas@gmail.com

Research Interest(s): Zoology

Description of Research: Dr Ngqulana's research interests are the taxonomy, morphology and genetics of marine mammals. She undertakes marine mammal stranding response along the Eastern and Southern Cape coastline.

Dr Stephen Holness

Affiliation: Research Associate – Department of Zoology

Email Address: S.Holness@mandela.ac.za

Research Interest(s): Systematic Conservation Planning; Spatial Biodiversity Assessment; Marine & Protected Area Planning; Climate Change Assessment & Planning

Description of Research: Dr Holness' research considers various aspects of systematic and conservation planning. His work focuses on assisting the Benguela Current Commission and its member states (Angola; Namibia; South Africa) to better define their Ecologically or Biologically Significant Marine Areas (EBSAs) and incorporate these into appropriate marine spatial planning and other planning and implementation processes. He also provides support for various sub-Saharan countries on systematic conservation planning, land use planning, and protected area expansion and management planning.

Dr Stephen (Steve) Kirkman

Affiliation: Research Associate – CMR; Specialist Scientist – Department of Forestry, Fisheries and the Environment (DFFE)

Email Address: spkirkman@gmail.com

Research Interest(s): Marine & Wildlife Ecology; Biodiversity & Conservation; Evolution; Natural Resource Management

Description of Research: Dr Kirkman's research focus is on the ecology of marine apex predators, understanding responses of marine ecosystems to global changes, the relevance to achieving biodiversity targets, and ethics in research and the management of marine animals.

Professor Susan Taljaard

Affiliation: Adjunct Professor – CMR; Principal Researcher – Council for Scientific and Industrial Research (CSIR)

Email Address: STaljaar@csir.co.za

Research Interest(s): Water Quality; Coastal Systems

Description of Research: Professor Taljaard investigates biogeochemical characteristics and processes in coastal systems (including estuaries) and responses to global change pressures. She develops integrated coastal management plans and best practice guidelines, and she is involved in the application of policies and methods linked to the effective management of estuaries.

Dr Taryn Riddin

Affiliation: Research Associate – Department of Botany

Email Address: taryn.riddin@live.co.za

Research Interest(s): Marine, Coastal & Aquatic Ecology; Sediments; Hydrology; Biodiversity & Conservation

Description of Research: Dr Riddin's work focuses on marine conservation planning and coastal processes, with a particular interest in estuaries.

Dr Theoni Photopoulou

Affiliation: Research Associate – CMR

Email Address: theoni.photopoulou@gmail.com

Research Interest(s): Biology: Quantitative Ecology

Description of Research: Dr Photopoulou's research focusses on quantitative analysis of biological and ecological data.



Professor Thomas (Tommy) Bornman

Affiliation: Honorary Professor – CMR; Manager – South African Environmental Observation Network (SAEON) Elwandle Coastal Node & Shallow Marine and Coastal Research Infrastructure (SMCRI)

Email Address: tg.bornman@saeon.nrf.ac.za

Research Interest(s): Marine Ecology & Biology; Biological Oceanography; Estuaries; Rivers; Hydrology; Rainfall

Description of Research: Professor Bornman's research interest is in the ecology of coastal and offshore marine plants and protists. He is involved in coastal diatom biogeography, phytoplankton ecology (coastal; marine; Southern Ocean and Antarctica), drivers of environmental change (sea-level; temperature; pollution etc.) and long-term coastal observations.

Professor Tris Wooldridge

Affiliation: Research Associate – Department of Zoology

Email Address: Tris.Wooldridge@mandela.ac.za

Research Interest(s): Marine Ecology; Estuaries; Phytoplankton; Marine Crustaceans; Water Quality; Distribution; Microalgae

Description of Research: Professor Wooldridge investigates zooplankton, phytoplankton and invertebrates in coastal systems. He is involved in estuarine and river mouth management planning.

Dr Vic Cockcroft

Affiliation: Research Associate – Department of Zoology

Email Address: dugongsorg@gmail.com

Research Interest(s): Marine Biology; Marine Mammals

Description of Research: Dr Cockcroft focuses on various aspects of marine mammal research, ranging from abundance and distribution, to the assessment of status, threats and management. He is involved in environmental conservation.

Dr Victoria Goodall

Affiliation: Research Associate – Department of Statistics

Email Address: Victoria.Goodall@mandela.ac.za

Research Interest(s): Statistical Ecology; Animal Movement Modelling

Description of Research: Dr Goodall's research focus is on statistical ecology. Her work uses statistical approaches for tracking animal movement and remote sensing. She is involved in marine protected area research.



Professor Warren Potts

Affiliation: Research Associate – CMR; Rhodes University

Email Address: w.potts@ru.ac.za

Research Interest(s): Marine Protected Areas; Marine Biology; Climate Change; Fisheries Management; Fisheries Ecology & Science; Social-Ecological Systems

Description of Research: Professor Potts' research examines and predicts the responses of coastal fishes to climate change, and the understanding of the synergistic impacts between exploitation and climate change. His findings are contextualised in recreational fisheries, where he promotes the strengthening of governance, from policy to voluntary institutions. He employs a range of techniques to improve the environmental behaviour of anglers.

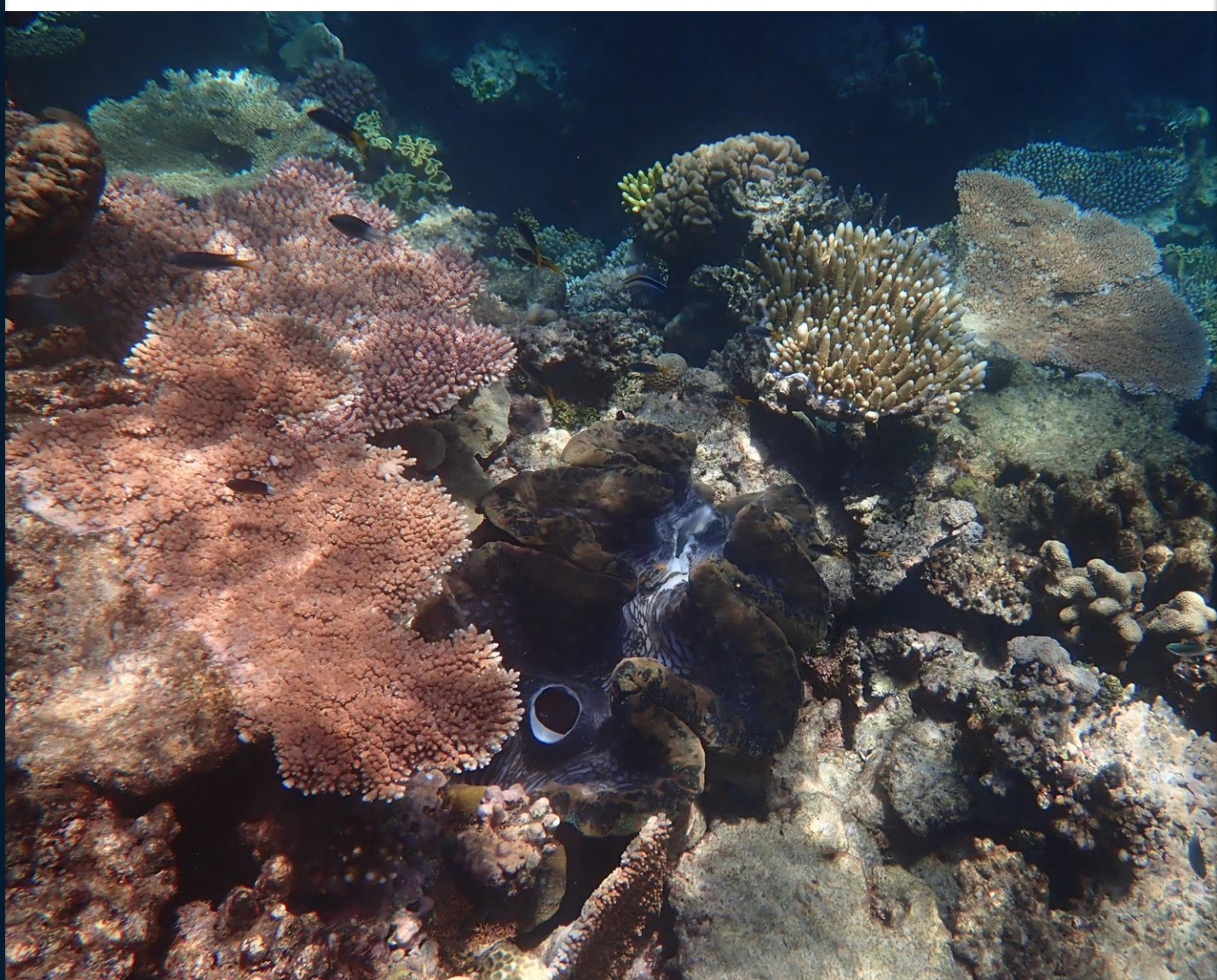
Dr Wessel (Chris) Oosthuizen

Affiliation: Research Associate – CMR; University of Cape Town

Email Address: w.chris.oosthuizen@gmail.com

Research Interest(s): Zoology; Ecology

Description of Research: Dr Oosthuizen's work focuses on marine predator ecology, and statistical ecology.



ASSOCIATE RESEARCHERS

Professor Alan Whitfield

Affiliation: Ecologist - South African Institute for Aquatic Biodiversity (SAIAB)

Email Address: A.Whitfield@saiab.ac.za

Research Interest(s): Estuarine Ecology; Ichthyology

Description of Research: Professor Whitfield's focus areas are the biology and ecology of fishes in estuarine environments, and larval fish ecology. He investigates the role of river flow in the functioning of estuaries.

Dr Angus Paterson

Affiliation: Managing Director – South African Institute for Aquatic Biodiversity (SAIAB)

Email Address: A.Paterson@saiab.ac.za

Research Interest(s): Marine Biodiversity; Diving; Management

Description of Research: Dr Paterson's research interests lie in coastal and inshore marine sciences and long-term environmental observation and monitoring. He has expertise in scientific diving.

Professor Francesca Porri

Affiliation: Scientist – South African Institute for Aquatic Biodiversity (SAIAB)

Email Address: F.Porri@saiab.ac.za

Research Interest(s): Climate Change; Marine & Wildlife Ecology; Urban Ecology; Conservation Biology; Invasive Species

Description of Research: Professor Porri's research considers organismal-, community-, and ecosystem-based approaches in a range of systems. She investigates the early life history processes that influence larval connectivity and the population dynamics in coastal invertebrates.

Mrs Jenny Rump

Affiliation: Environmental Officer – Zwartkops Conservancy

Email Address: jenny@zwartkopsconservancy.org

Research Interest(s): Environmental Education; Conservation

Description of Research: Mrs Rump's work involves environmental education, and environmental clean-ups and conservation initiatives using waste collected in the coastal environment.

Mr Liwalam (Liwa) Madikiza

Affiliation: Scientist Manager – Department of Environmental Affairs: Oceans and Coasts

Email Address: Lmadikiza@environment.gov.za

Research Interest(s): Science Management; Environmental Management

Description of Research: Mr Madikiza works in the field of environmental management and assessing the state of the oceans and coasts.

Dr Nasreen Peer

Affiliation: Lecturer - Stellenbosch University

Email Address: peer.nasreen@gmail.com

Research Interest(s): Marine Ecology; Biodiversity; Evolution; Biodiversity Monitoring; Systematics; Invasive Species

Description of Research: Dr Peer's research focuses on the biodiversity, ecology and taxonomy of Southern African mangrove ecosystems. She is interested in exploring the role of local communities in conservation with an emphasis on traditional ecological knowledge.

Dr Paula Patrick

Affiliation: Project Manager - Abalobi

Email Address: paula@abalobi.org

Research Interest(s): Fish Ecology; Larval Fish; Fish Biology

Description of Research: Dr Patrick's research focuses on various aspects of larval fish ecology in the coastal environment, including estuaries. She investigates: the distribution of larvae determined through hydrodynamics, behaviour and physiology; larval connectivity; and the influence of urbanisation in shallow coastal systems on invertebrate and fish larvae, amongst others.

Mr Pierre de Villiers

Affiliation: Coastal Programme Manager – CapeNature

Email Address: estuaries@capenature.co.za

Research Interest(s): Estuarine Ecology; Environmental Management; Water Quality; Scientific Diving

Description of Research: Mr De Villiers is involved in estuarine research and environmental management. He has an interest in marine robotics and has experience in scientific diving.

Professor Rosemary (Rosie) Dorrington

Affiliation: Chair Holder – Marine Natural Products at Rhodes University

Email Address: rosemary.dorrington@gmail.com

Research Interest(s): Virology; Natural Products; Marine Science

Description of Research: Professor Dorrington's research interests are in molecular virology, and microbial ecology and marine natural products research. She is involved in marine spatial planning initiatives.

Dr Stacey Webb

Affiliation: Executive Director – Sustainable Seas Trust (SST)

Email Address: stacey@sstafrica.org.za

Research Interest(s): Conservation; Environmental Education; Animal Rehabilitation; Zoology; Ecophysiology

Description of Research: Dr Webb's work focuses on environmental education, marine waste management and citizen science.

POST-DOCTORAL RESEARCH FELLOWS

Dr Alejandra Vargas-Fonseca

Affiliation: Post-Doctoral Research Fellow – Department of Oceanography & Marine Spatial Planning Research Chair

Email Address: ale@earthcollective.net

Research Interest(s): Marine Top Predators; Ocean Health

Description of Research: Dr Vargas-Fonseca's work focuses on marine top predators, ranging from research conducted on dolphin genetics and distribution, to habitat use in relation to Marine Protected Areas. She is currently involved in the MARISCO Project (Marine Research and Innovation for a Sustainable management of Coasts and Oceans). Her focus is on scenario planning of global environmental change and the resulting cumulative impact on natural systems and the human values dependent on biodiversity, extending to human impacts and the Ocean Health Index.

Dr Bernardino (Dino) Malauene

Affiliation: Post-Doctoral Research Fellow – Ocean Science & Marine Food Security Research Chair

Email Address: dinomalawene@yahoo.com.br

Research Interest(s): Physical Oceanography; Climate Change and Variability; Marine Ecosystem Functioning and Characterization; Connectivity; Marine Environmental Monitoring and Mitigation; EIA Process

Description of Research: Dr Malauene's research focuses on the marine ecosystem. He uses applied marine science, combining in situ observations, satellite data and both ocean and biophysical modelling to investigate ocean processes including environmental factors, their role on marine life and ultimately relate these to fisheries population dynamics.

Dr Daniel Lemley

Affiliation: Post-Doctoral Research Fellow – Shallow Water Ecosystems Research Chair

Email Address: lemleydaniel7@gmail.com

Research Interest(s): Water Quality; Nutrient Analysis; Estuaries; Eutrophication; Microalgae; Phytoplankton

Description of Research: Dr Lemley's work focuses on estuarine ecology, with a particular interest in the process of eutrophication and harmful algal blooms. He investigates the autecology of various harmful algal bloom species in South African coastal and estuarine ecosystems, aiming towards effective mitigation in the future.



Dr Diane Le Gouvello

Affiliation: Post-Doctoral Research Fellow – Department of Zoology

Email Address: diane.legouvello@gmail.com

Research Interest(s): Conservation Biology; Beach Ecosystems

Description of Research: Dr Le Gouvello's research focuses on sea turtle fitness, sandy beach ecology, and long-term environmental monitoring.

Dr Minke Witteveen

Affiliation: Post-Doctoral Research Fellow – Department of Oceanography

Email Address: minke.witteveen@gmail.com

Research Interest(s): Conservation; Human-wildlife Interactions; Anthropogenic Impacts; Marine and Freshwater Ecology

Description of Research: Dr Witteveen's research focuses on the ecological functioning of Groenvlei, a paleo-coastal limnetic wetland. Her research will determine the present ecological state of Groenvlei, and how effective current control of the invasive common carp is, and how carp control affects water quality and phytoplankton community composition.

Dr Monique Nunes

Affiliation: Post-Doctoral Research Fellow – Shallow Water Ecosystems Research Chair

Email Address: mnunes3712@gmail.com

Research Interest(s): Estuaries; Water Quality; Ecological Monitoring

Description of Research: Dr Nunes' work focuses on estuarine ecology, water quality, and diatom autecology and taxonomy.

Dr Sixolile Mazwane

Affiliation: Post-Doctoral Research Fellow – Ocean Science & Marine Food Security Chair

Email Address: s209010145@mandela.ac.za

Research Interest(s): Using satellite and autonomous vehicles (robots) to investigate Chlorophyll-a, phytoplankton net primary production (NPP) and phytoplankton community composition on the western Indian Ocean.

Description of Research: Dr Mazwane's research aims to fill the knowledge gaps of net primary production, phytoplankton distribution and composition on the Western Indian Ocean.

Dr Tegan Carpenter-Kling

Affiliation: Post-Doctoral Research Fellow – Department of Oceanography & Marine Spatial Planning Research Chair

Email Address: tegan.carpenterkling@gmail.com

Research Interest(s): Behavioural Ecology; Foraging; Animal Tracking; Habitat Selection; Stable Isotopes; Trophic Ecology

Description of Research: Dr Carpenter-Kling's research investigates general seabird ecology, with expertise on how marine top predators utilise the ocean.

Dr Obinna Nkomadu

Affiliation: Post-Doctoral Research Fellow – Law of the Sea and Development in Africa Research Chair

Email Address: obinnaveronica@yahoo.com

Research Interest(s): Law of the Sea

Description of Research: Dr Nkomadu's work focuses on maritime security law, and maritime safety law.

Dr Yanasivan Kisten

Affiliation: Post-Doctoral Research Fellow – Department of Zoology

Email Address: yanasivan@gmail.com

Research Interest(s): Fish Ecology, Aquatic Animal Ecophysiology

Description of Research: Dr Kisten's research investigates historical ecology of larval fishes on the South African coast.

Dr Ntombizanele (Zanele) Hartmann

Affiliation: Post-Doctoral Research Fellow – Ocean Cultures and Heritage Chair

Email Address: zanele.hartmann@gmail.com

Research Interest(s): The interconnectedness of nature and people; and coastal blue spaces and human well-being

Description of Research: Dr Hartmann's research investigates the nature of identity, community and heritage in coastal communities and villages. Her studies focus on the perceived benefits of exposure to coastal blue spaces to the health and human well-being of diverse actors in the Colchester and Sunday River areas.



ACKNOWLEDGEMENTS & CONTACT DETAILS

Acknowledgements

The CMR thanks its members for their dedication to transdisciplinary ocean and coastal sciences research, and for contributing towards the CMR's success as an internationally-recognised research institute.



E-mail address:

cmr@mandela.ac.za

Physical Address:

Institute for Coastal and Marine Research (CMR)
Ocean Sciences Campus
Building 1105
E-Block Extension
Second Floor
Nelson Mandela University
Gomery Avenue
Summerstrand
Gqeberha
South Africa

Social Media:



Institute for Coastal
and Marine
Research - CMR



@CMR_MandelaUni



@cmr_mandelauni



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