

Curriculum Vitae

Name: Rogan Harmer

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I am a Masters graduate from the University of Kwa-Zulu Natal. My MSc dissertation focused on the influences of coral reef proximity on soft-bottom macrofaunal communities. Over the course of my studies I have focused on benthic ecology in the subtropical east coast of South Africa. I have a keen interest in the field of natural science and from my volunteering and work experience I have acquired skills in a range of laboratory and field techniques. I have worked closely with scientists from various organisations and appreciate the value of good scientific practice.

Educational qualifications

Year	Institution	Degree								
2008-2010	University of Kwa-Zulu Natal	<p><i>Bachelor of Science: Marine Biology</i></p> <p><u>Courses taken include:</u></p> <table> <tr> <td>Geographic Information Systems (GIS)</td> <td>Applied Marine Biology</td> </tr> <tr> <td>Marine Ecophysiology</td> <td>Marine Environment</td> </tr> <tr> <td>Invertebrate Diversity & Ecology</td> <td>Community Ecology</td> </tr> <tr> <td>Statistics for Natural Sciences</td> <td>Pollution & Remediation</td> </tr> </table> <p><i>Final year project:</i> A benthic faunal survey of the northern Durban Harbour Wall less than a year after construction.</p>	Geographic Information Systems (GIS)	Applied Marine Biology	Marine Ecophysiology	Marine Environment	Invertebrate Diversity & Ecology	Community Ecology	Statistics for Natural Sciences	Pollution & Remediation
Geographic Information Systems (GIS)	Applied Marine Biology									
Marine Ecophysiology	Marine Environment									
Invertebrate Diversity & Ecology	Community Ecology									
Statistics for Natural Sciences	Pollution & Remediation									
2011	University of Kwa-Zulu Natal	<p><i>Bachelor of Science Honours: Marine Biology</i></p> <p><u>Courses taken include:</u></p> <table> <tr> <td>Marine Ecosystem Analysis</td> <td>Fisheries Science</td> </tr> <tr> <td>Coastal Ecology</td> <td>Marine Biodiversity</td> </tr> <tr> <td>Biology/Ecology Tools and Skills</td> <td></td> </tr> </table> <p><i>Honours Project:</i> A comparison of benthic fauna and fish assemblages on natural and artificial reefs on the coast of Kwa-Zulu Natal, South Africa</p>	Marine Ecosystem Analysis	Fisheries Science	Coastal Ecology	Marine Biodiversity	Biology/Ecology Tools and Skills			
Marine Ecosystem Analysis	Fisheries Science									
Coastal Ecology	Marine Biodiversity									
Biology/Ecology Tools and Skills										
June 2012- August 2014	University of Kwa-Zulu Natal	<p><i>Masters of Science: Soft-sediment macrofaunal communities of iSimangaliso Wetland Park and the influences of coral reef proximity.</i></p>								

Work Experience

Date	Organisation	Position	Responsibilities
2010 - Current	Department of Life Sciences, University of Kwa-Zulu Natal	Demonstrator	<ul style="list-style-type: none"> • Demonstration of various lab techniques to students • Field trip supervision • Marking of tests and assignments
2010 - 2011	uShaka Marine World	Volunteer aquarist	<ul style="list-style-type: none"> • Cleaning and aquarium maintenance • Feeding and rearing of aquarium fauna
2010/2012	St Lucia Estuary Monitoring Program, University of Kwa-Zulu Natal	Undergraduate studies	<ul style="list-style-type: none"> • Measuring chemical-physical parameters • Measuring abundance, diversity and distribution of estuarine flora and fauna
August 2013	Ezemvelo KZN Wildlife	Scientific diver	<ul style="list-style-type: none"> • Deployment and recovery of instruments
December 2013	Ezemvelo KZN Wildlife	Aided in turtle monitoring program (Volunteer)	<ul style="list-style-type: none"> • Data capture, tagging and nest relocation
July 2013 – January 2014	eThekweni Municipality's Coastal Engineering, Stormwater and Catchment Department	Co-supervisor of biological survey of macrobenthic fauna at three potential offshore sediment excavation sites	<ul style="list-style-type: none"> • Formulate sampling procedures • Sampling • Statistical analysis of data • Report writing
March 2014	Sappi	Commercial/Scientific diver for SAPPI pipeline survey	<ul style="list-style-type: none"> • Underwater filming and noting defects or points of interest on pipeline
May 2014	SAIAB, SAEON, ORI, EKZN Wildlife	Aided in offshore sampling of Natal Bight	<ul style="list-style-type: none"> • Deployment of ROV, CTD, plankton nets and fish BRUVs
September 2014	Nelson Mandela Metropolitan University (NMMU)	Scientific diver	<ul style="list-style-type: none"> • Capture and tagging of turtles

Skills & Experience

- Proficient in the use of Microsoft programs and statistical analysis using various statistical software programs such as PRIMER, SPSS and GraphPad Prism.
- Experimental design, conducting field work, data collection/capture and report writing.
- Strong communication skills - have the ability to communicate well with others and present seminars/talks.

- Laboratory experience – dissections, microscopy, flourometry, spectrophotometry organic carbon analysis, sediment analysis, rearing and maintaining live specimens, preservation of specimens and more.
- Taxonomy – competent in the identification of invertebrate and vertebrate taxa.
- Experienced in various field sampling methods – quadrat sampling, transect sampling, mark-recapture and more.
- Technologically/mechanically competent- understanding and use of equipment, basic repair/maintenance, and design/construction of instruments for field use.
- Fully qualified Class IV commercial/scientific diver qualification.

Conference Presentations

- 2013 *Western Indian Ocean Marine Science Association (WIOMSA)*. Poster presentation: The effects of coral reef proximity on the soft-sediment macrofaunal communities of iSimangaliso Wetland Park, South Africa. 29 October 2013. Maputo, Mozambique
- 2013 *Symposium of Contemporary Conservation Practice (SCCP)*. Oral presentation: The effects of coral reef proximity on the soft-sediment macrofaunal communities of iSimangaliso Wetland Park, South Africa. 7 November 2013. KwaZulu-Natal, South Africa.

Interests

Life science research and conservation. SCUBA diving, spearfishing, fishing, hiking, mountain biking.